REMOVAL ACTION SUMMARY REPORT

FORMER GST STEEL SITE Kansas City, Missouri

Project: 148313

July 18, 2014

Prepared for:

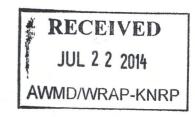
Mile Rail, LLC 281 Woodcreek Court Commerce, MI. 48390

Prepared by:



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July 21, 2014

Mr. Bruce Morrison
Environmental Engineer
Air and Waste Management Division
U.S Environmental Protection Agency, Region 7
11201 Renner Boulevard
Lenexa, Kansas 66219

JUL 2 2 2014

AWMD/WRAP-KNRP

Subject:

Removal Action Summary Report

Dear Mr. Morrison:

On the behalf of Mile Rail, LLC (Mile Rail), CB&I Environmental and Infrastructure (CB&I) submits two copies of the *Removal Action Summary Report* (RA Report) to the U.S. Environmental Protection Agency (EPA) regarding the former GST Steel facility (Site) located at 8116 Wilson Road, Kansas City, Missouri. The RA Report was prepared to provide a summary of the removal action activities and results of the confirmation samples at the Site. This RA fulfills the requirements of 40 CFR 761.61 for remediating PCB impacted soil to Low Occupancy Levels at the Site and; therefore, Mile Rail requests closure of the former GST Steel facility property.

If you have any questions, please contact me at (913) 317-3591.

Sincerely,

Mark L. Finney, R.G.

Project Manager

cc:

Christine Kump-Mitchell, MDNR

Glen Schwartz, Mile Rail, LLC

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1.0 SITE BACKGROUND

1.1 Introduction

On the behalf of Mile Rail, LLC (Mile Rail), CB&I Environmental and Infrastructure (CB&I), formerly Shaw Environmental, is pleased to submit this Removal Action Summary Report (RA Report) to the U. S. Environmental Protection Agency (EPA) which documents work performed by Mile Rail to implement the Remedial Action (RA) at the former GST Steel facility (Site) located at 8116 Wilson Road, Kansas City, Missouri. Fluids containing polychlorinated biphenyl (PCB) were discharged from an unknown number of transformers onto the ground adjacent to the former electrical substation located on the far eastern extent of the Site. Subsequently impacting portions of the concrete pad associated with the substation and the adjacent soil on the north and east sides of the substation.

PCB concentrations were identified in portions of the former substation concrete pad, fill material placed in Excavation 2, and in the soil northeast of the pad. RA activities performed by Mile Rail were completed in accordance with the EPA-approved Removal Action Plan (RAP) and 40 CFR 761.61 and Subpart O. These RA activities were completed on May 21, 2014. This RA Report documents the work performed by Mile Rail.

1.2 Background

Initial RA activities were conducted by Compass Big Blue, LLC (Compass) and documented by West Central Environmental Consultants, Inc. (WCEC). The majority of the known PCB impacted soil were removed from the site and disposed at an approved offsite landfill. Compass discontinued RA activities in November 2012 and filled the initial excavations and a concrete vault with soil from an undetermined location. Leaving PCB impacted soil above 25 parts per million (ppm) onsite east of the former substation pad, extending to the northeast. The initial RA activities were conducted under the "Notification & Certification of Self-Implementing Cleanup and Disposal of PCB Remediation Waste" work plan dated March 31, 2012 to document the proposed polychlorinated biphenyl (PCB) characterization sampling activities.

On November 26, 2012, the Environmental Protection Agency Region 7 (EPA) requested testing of the fill material placed in the previous excavation, testing of the concrete vault located beneath the substation pad, and characterization of the PCBs in the soil to 1 ppm prior to conducting any

further RA activities. The results of this investigation identified PCB concentrations exceeding the limit for Low Occupancy Areas in portions of the concrete pad and in the soil used as fill material in the former excavations. PCB concentrations in the side walls of the vault were below the Low Occupancy Stands and were left in place.

1.3 Site Conditions

The Site is the former GST Steel facility located at 8116 Wilson Road, Kansas City, Missouri. The Site is located in Section 31, Township 50 North, Range 32 West in Jackson County, Missouri. The Site and surrounding properties are zoned commercial/industrial. The Site is located adjacent to the Union Pacific Railroad Company's property in the vicinity of Mile Post 277.3, K.C Metro (Neff Yard) in Kansas City, Missouri.

The Site is located in the far eastern portion of the former GST Steel facility on a narrow ridge positioned between two railroad tracks that come together east of the Site forming a Y. The surface topography is relatively flat on top of the ridge and drops off steeply to the north-northeast and south-southeast to the access roads that run parallel to the railroad tracks. The side slopes are heavily vegetated with brush and trees. The area to the west is a relatively flat parcel that is undeveloped and covered with gravel with little to no vegetation. The Site is well drained with no discernable drainage issues. The overall surface drainage is generally to the north and northeast towards the Little Blue River.

Previous investigations indicated that residual PCBs remained in the soil on the northeast portion of the concrete pad extending to the northeast towards the UP property. Soil from an unknown source was placed in the previous excavations by Compass following the RA completed in November 2012. No analytical data was provided to demonstrate the soil was free of PCBs prior to placement in the excavations. Subsequent testing of the soil used for fill material indicated that the soil contained PCBs. In addition, no analytical testing was conducted on the former substation concrete pad and associated vault. Chip samples collected from the concrete pad indicated that portions of the pad were impacted with respect to PCBs that exceed the limit for a Low Occupancy Area, while PCB concentrations in the vault walls were below the limit for a Low Occupancy Area.

1.4 Soil Characterization

On August 20, 2013, continuous soil samples were collected from 14 locations in an effort to delineate the horizontal and vertical extent of the remaining PCBs in the soil. Continuous soil samples were collected at each sample location using a direct push (GeoprobeTM) rig to advance a 4-foot macro sampler with a disposable PVC liner to the target depth. A new PVC line was

Removal Action Summary Report Former GST Steel Site Kansas City, Missouri

used at each sample interval. Upon retrieval, the sampler was opened, visually inspected for content, and measured for sample recovery. A discrete soil sample was collected a from the designated sample interval and submitted to a certified laboratory for PCB analysis using EPA Method 8082. Soil sample depths were referenced from the top of the former concrete pad.

All sample activities were conducted in accordance with Section 2.0 of the Work Plan (Shaw, 2013). The limits of PCBs in the soil were defined to 1 mg/kg on the Mile Rail property. PCBs concentrations in the soil exceeding the Low Occupancy Limit extend to the north property line and may extend off site to the northeast onto the adjacent property owned by the Union Pacific Railroad Company. PCBs in the soil on Mile Rail property were detected in a narrow band from CS-101S (230 mg/kg) located in Excavation 4 extending to the northeast to CS-307 (740 mg/kg). The detection at CS-101S was located at approximately 6.6 feet below the pad reference elevation and trended downward as it migrated to the northeast to 14 to 16 feet below the pad at CS-102E (580 mg/kg), and to 16 to 22 feet below the top of the pad near the north property line at CS-307 (740 mg/kg). The analytical testing results are summarized in **Table 1** and illustrated in **Figure 1**.

2.0 REMOVAL ACTION OBJECTIVES

RA activities were completed on May 21, 2014 in accordance with the EPA-approved RAD. This RA Report documents the work performed by Mile Rail at the former GST Steel Facility.

The contaminant of concern (COC) was PCB presumably resulting from the discharge of transformer fluids at the former substation by copper thieves. Portions of the substation's concrete slab and the adjacent soil were impacted as a result of this activity. PCB was identified in the soil primarily on the east side and to a lesser extent on the north side of the concrete pad extending to the northeast toward the railroad tracks.

The objective of the RA was to remove all PCB impacted material above the Low Occupancy Standard and dispose of the material in the appropriate waste management unit. The following tasks were performed to meet the objective:

- Removed all PCB impacted concrete associated with the identified concrete pad and vault. Dispose of the demolition waste concrete to the appropriate waste management unit based on available analytical data.
- Excavated all PCB impacted fill material within the limits of the former excavations. Dispose of the excavated material to the appropriate waste management unit based on available analytical data.
- Excavated all PCB impacted soil on Mile Rail property above the Low Occupancy Standard and dispose of the excavate soil to the appropriate waste management unit based on available analytical data.
- Collected confirmation samples of the native soil following excavation activities to confirm all impacted soil above the Low Occupancy Standard has been removed.
- All required concrete, soil, and fill material samples were submitted to an EPA certified laboratory for PCBs analysis.
- Prepare a brief report to summarize the RA activities. The report will include the cumulative analytical data, summary of RA construction activities, copies of the waste manifests, and photographic log of activities.

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2.1 Target Cleanup Goals

The impacted soil identified on site during the characterization phase will be remediated to Low Occupancy Standards. Concrete and fill/soils with confirmed concentrations greater than 25 mg/Kg of PCBs were excavated and disposed offsite at the permitted land disposal facilities. Materials classified as non-hazardous with supporting analytical data were disposed offsite as special waste at a permitted facility. Materials classified as hazardous waste or PCB concentrations greater than the local disposal facility's permit limit were disposed offsite at a permitted TSCA waste management facility.

3.0 REMOVAL ACTION

3.1 Removal Action Construction

The RA activities performed by Mile Rail as set forth in the approved RAD included the excavation, transportation, and final disposal of PCB impacted materials from the Site depicted in **Figure 2**. PCB impacted soil identified during the site investigation was excavated and disposed at the respective landfill permitted to receive special waste or TSCA waste. Confirmation sampling was conducted within the limits of the excavation to confirm that PCBs concentrations were below the levels for Low Occupancy Standards. The limit of the excavation is illustrated in **Figures 3** and **4**. Photographic documentation of the RA construction activities are provided in **Appendix A**.

Confirmation samples were collected from the exposed excavation side walls and bottom following the excavation of the impacted soil to confirm residual PCBs concentrations. The fill was compacted in lifts and graded to promote drainage to the northeast, east, and southeast.

The RA provides protection of human health and the environment through the removal of impacted soil. PCB concentrations in the soils left on site were below the levels for Low Occupancy Standards. All disturbed areas including the location of the former pad and vault, were covered with soil fill material.

2.1.1 Best Management Practices

Best Management Practices were not required during the RA construction activities. The Site is located on a narrow ridge located between the junction of two railroad tracks. Previous RA work conducted by others resulted in the formation of a relatively shallow pit which contained all direct precipitation from leaving the area of disturbance. The location of the work area on the ridge limited the runoff of surface water from areas outside of the area of disturbance. No measureable precipitation occurred during periods of construction; therefore, no surface water management activities were required.

3.1.2 Site Preparation

Minimal site preparation was required for the RA construction activities. Minimal vegetation was cleared along the south and east portions of the pad to provide access for equipment. Minor

grading occurred along the south extent of the former pad to provide a path for hauling soil from the excavation to haul trucks. No free liquids were observed in the prior excavation during the RA construction activities as observed in Photographs provided in **Appendix A**.

Vegetation and construction debris generated during the RA site preparation was transported and disposed at the Johnson County Landfill located in Shawnee, Kansas. Manifests for the disposal of the construction debris and soil were provided to the Engineer on a daily basis.

3.1.3 Excavation

All investigation and remedial activities were conducted under the EPA approved Work Plan and "Removal Action Plan" (RAP) dated July 2013. Per the client's requests, characterization and removal action activities were conducted in conjunction with an attempt to expedite the schedule. The results of the concrete pad and fill material sampling are summarized in the RAP and illustrated on **Figure 1**. A summary of the concrete pad and fill removal, vault sampling, and characterization sampling activities are provided below.

Soil with PCB concentrations less than 25 mg/kg were left on site. Impacted soil with PCB concentrations exceeding 25 mg/kg on Mile Rail property were excavated and disposed at an EPA approved landfill as outlined in Section 4.1.5 of the RAP (Shaw, 2013c). Non-hazardous soil with PCB concentrations greater than 25 mg/kg but less than 50 mg/kg was disposed at the Johnson County Landfill. Soils classified as hazardous, PCB concentrations greater than 50 mg/kg, were disposed as TSCA waste at the Heritage Environmental Services, LLC facility located in Roachdale, Indiana. Confirmation samples were collected on the sidewalls and floor of the excavation to confirm all impacted soil above 25 mg/kg of PCBs had been removed.

3.1.3.1 Concrete Pad and Fill Material Disposal

A RA was conducted from July 31, 2013 through August 1, 2013 to remove portions of the identified PCB containing waste from the site agreed on by the EPA and Mile Rail. This included the former substation concrete pad, the majority of the soil located within the confines of the vault, and fill material previously placed in the excavations by others. Waste containing PCB concentrations below 50 mg/kg were disposed at the Johnson County Landfill. Materials containing PCB at or greater than 50 mg/kg were disposed at the Heritage Environmental Services, LLC hazardous waste facility located in Roachdale, Indiana. Below are the actual quantities of materials disposed offsite at the approved land disposal facilities during the RA conducted on July 31 and August 1, 2013:

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Heritage (TSCA waste):

End Dump: 21.89 Tons
Roll-off #1: 11.33 Tons
Roll-off #2: 14.01 Tons

Johnson County Landfill – Deffenbaugh (special waste):

6 End dumps:

End Dump: 7.19 TonsEnd Dump: 14.47 TonsEnd Dump: 25.40 Tons

End Dump: 14.56 TonsEnd Dump: 17.61 Tons

• End Dump: 13.10 Tons

3.1.3.2 Vault Samples (concrete, sediment, and water)

Samples were collected from the side walls and contents of the vault to determine final disposition of the concrete vault. On August 8, 2013, the remaining sediment and water in the vault were sampled and submitted for PCB analysis using EAP Method 8082. The results of the analytical testing indicated that the sediment in the vault contained 1.3 mg/kg of PCB and the water contained 37.2 ug/L of PCBs. On October 1, 2013, attempts were made to remove the water from the vault to collect chip samples of the opposing side walls and floor of the vault. Ten, 55-gallon drums of water were pumped from the vault in an attempt to dewater the vault. The water level maintained approximately 8 to 10 inches deep through this process, preventing the collection of the chip sample from the vault floor. Chip samples were collected from the opposing north and south side walls from a level with observed staining. PCB concentrations in the sediment and chip samples were below the Low Occupancy Standard of 25 mg/kg. The results of the analytical testing are summarized in **Table 1**.

3.1.3.3 Impacted Soil Disposal

The final phase of the RA was conducted on April 16, 2014, May 7, 2014, and May 20, 2014 to remove the identified impacted soil with PCB concentration exceeding 25 ppm. This included the area on Mile Rail property identified during the site investigation conducted on August 20, 2013. All excavated soil was assumed to be comingled with soil containing PCB at or greater than 50 mg/kg and; therefore, were disposed at the Heritage Environmental Services, LLC

hazardous waste facility located in Roachdale, Indiana. Below are the actual quantities of materials disposed offsite at the approved land disposal facilities during the RA conducted on April and May 2014:

Heritage (TSCA waste):

- End Dump (April 16, 2014): 26.99 Tons
- End Dump (May 7, 2014): 22.94 Tons
- End Dump (May 20, 2014): 17.07 Tons

A total of 206.56 tons of impacted concrete, fill material, and soil were excavated from the Site and disposed at the Johnson County and Heritage Landfills. Photographs documenting the excavation activities are provided in **Appendix A**.

The demolition of the top of the vault and concrete pad was accomplished using a Volvo BL60B backhoe equipped with a hydraulic ram. Impacted soil was excavated during the initial phase using a CAT mini excavator. The final excavation of impacted soil was conducted using CAT 320 excavator for additional reach requirements.

Waste manifest disposal tickets were provided to each driver onsite at the time they were loaded. A signed copy of the special waste manifest disposal ticket and associated landfill weight ticket were returned to the CB&I representative. A summary of the weight tickets are provided in **Appendix C**.

3.1.4 Confirmation Sampling

Confirmation samples were collected from the exposed side walls and bottom of the excavation to confirm PCB concentrations were below the Low Occupancy Standards. A total of 8 record samples and one duplicate sample were collected following the initial excavation conducted on April 16, 2014. Four additional confirmation samples were collected from the areas where PCB concentrations exceeded the Low Occupancy Standards and required additional excavation. On May 20, 2014 these areas were over excavated to remove the impacted soil and confirmation samples collected to confirm the results. Duplicate samples were collected on a 10:1 basis for quality control purposes. Documentation of the sampling activities was recorded in a field logbook. The eight locations were located within the limits of the excavation as illustrated in **Figures 3** and **4**.

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Soil samples were submitted to a certified laboratory for analyses. All samples were submitted for an expedited turnaround time (48 hour). Samples collected during the RA activities were analyzed for PCBs using EPA Method 8082.

No measureable precipitation occurred during the RA construction activities and no water was observed in the open excavation; therefore, no surface water samples were collected.

In the initial excavation, PCB concentrations exceed the Low Occupancy Standards on 25 mg/kg in four of the eight samples collected. These include the samples SIDE2 (130 mg/kg), SIDE3 (290 mg/kg), SIDE5 (29 mg/kg), and BOTTOM1 (410 mg/kg). These areas were over excavated on May 20, 2014 to remove the remaining impacted soil. PCB concentrations in the confirmation samples collected from the areas of over excavation were below the Low Occupancy Standards on 25 mg/kg in all three of the samples collected (PCB <0.017 to 0.024 mg/kg). The north extent of the excavation terminated at the property line. Mile Rail was unable to acquire the necessary right of entry agreement from the property owner to extend the excavation beyond that point; therefore, no additional confirmation samples were collected at sample location SIDE 3. The results of the confirmation sampling are summarized in **Table 2** and illustrated in **Figures 3** and **4**. Laboratory reports are provided in **Appendix B**.

3.1.5 Site Restoration

The excavation was backfilled with clean soil from an off-site borrow source once all impacted materials had been removed and confirmed by analytical data. Approximately 144 cy of soil were transported to the Site to fill in the area of excavation. On April 10, 2014, a confirmation sample collected at the borrow source to confirm the soil was free of PCBs. No PCBs were detected in the soil sample. Analytical results are provided in **Appendix B**.

Plastic sheet was placed on the north extent of the excavation at the property line where residual PCB contamination remained. Soil was initially dumped on the west extent of the work area and distributed in place using a CAT 320 excavator to restore the site to near original grade. The soil was placed in 6-inch lifts and compacted in place using the excavation bucked and tracks to minimize potential future settling. The soil fill was graded to match the existing grade on the west extent of the Site and sloped to the north, east, and south to match the adjacent respective grades and promote drainage. Grading activities are documented in photographs provided in **Appendix A**.

3.1.6 Groundwater Sampling

On May 21, 2014, groundwater samples were collected from two locations to evaluate the potential impact to the underlying aquifer. Sample GW-1 was located on the southwest extent of the excavation and Sample GW-2 was located on the northeast extent of the excavation adjacent to the UP property. The two discrete groundwater samples were collected by advancing a SP15 groundwater sampler to the target depth using a GeoprobeTM rig. The first probe was advanced to a total depth of 28 feet bgs at location GW-1. Insufficient water was encountered to obtain the required sample volume; therefore, a temporary piezometer was installed in the probe hole. No measureable quantities of water were observed in the temporary piezometer set at 28 feet bgs. Temporary piezometers were then set at GW-1 and GW-2 to a total depth of 30 feet bgs. A sufficient quantity of water was available at this depth to collect the required sample volume at both locations. Groundwater and sediment were purged from the piezometer to provide a representative sample prior to sample collection. Filtered and non-filter groundwater samples were collected at each location and submitted to a certified laboratory for analyses. All samples were submitted for a standard 14 day turnaround time. Groundwater samples collected during the RA activities were analyzed for PCBs using EPA Method 8082. PCB concentrations in the groundwater samples collected at GW-1 and GW-2 were below the analytical detection limit of 0.5 ug/L. The results of the groundwater sampling are summarized in **Table 2** and illustrated in Figures 4.

3.1.7 Off-Site Access

Soil samples collected along the north property line indicated that PCBs have migrated onto the adjacent property owned by the Union Pacific Rail Road Company (UP). The UP was notified that PCBs have migrated onto their property in the vicinity of Mile Post 277.3, K.C Metro (Neff Yard), in Kansas City, Missouri. The UP subsequently issued Folder No.2842-48 for the Right-of-Entry application.

The Work Plan Addendum dated November 6, 2013 was prepared and approved by the EPA on November 11, 2013 to characterize the northern extent of the PCB plume on UP property. The investigation included extending the 1.5 m grid to the northeast and collecting soil samples along the grid and bracketing the interval of identified PCB contamination at the adjacent sample locations. Groundwater samples were to be collected from selected locations based on the results of the soil investigation to determine possible impact to the aquifer.

On December 2, 2013, an Environmental Right-of-Entry agreement application was submitted to the UP to conduct the investigation. UP approved the application and submitted a revised Right-

of-Entry Agreement to Mile Rail on December 20, 2013. On January 17, 2014, UP requested a copy of Mile Rails certificate of insurance (COI) to process the Environmental Right-of-Entry agreement. A COI is required from the licensee of the agreement to conduct work on the UP property. Mile Rail allowed the insurance for the Site to lapse following the sale of the property and prior to knowledge of the off-site migration of PCB. Mile Rail subsequently tasked an insurance broker to obtain the require insurance. Procurement of the required insurance proved challenging since Mile Rail no longer owned the property. On March 27, 2014, Mile Rail, after exhausting all perceivable options to obtain the required insurance, discontinued their effort to pursue the Right-of-Entry Agreement and resumed efforts towards the onsite RA. A copy of the UP Right-of-Entry Agreement is provided in **Appendix D**.

3.2 Schedule

Due to physical limitation accessing the vault and impacted soil, the RA activities were staged pending characterization of the material to determine handling process and disposition. This included characterization and demolition of the vaults top, characterization and disposal of the vault contents, and management of the fill material and excavation of the underlying impacted soil. These activities were initiated in March 2013 and completed in May 2014.

A schedule of the site characterization and RAD/RA activities is provided below.

Collected Chip Samples from Vault Top	March 13, 2013
Collected Additional Chip Samples from Vault Top	April 3, 2013
Collected Fill Material Samples	May 21, 2013
Collected Discrete Fill Material Samples at Excavation 2	June 18, 2013
Removed Top of Vault/ Excavated Fill Material July 3	30-August 1, 2013
Characterized Extent of PCBs in Soil	August 20, 2013
Removed Contents and Collected Chip Samples from Inside of Vault	October 1, 2013
Submitted application for Right of Entry agreement	December 2, 2013
Submitted signed Right of Entry agreement	December 20, 2013
Rescinded Right of Entry agreement	March 27, 2014
Collected Borrow Source Confirmation Sample	April 10, 2014
Completed RA Construction Activities (Initial)	April 16, 2014
Completed RA Construction Activities (Second)	May 7, 2014

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Backfilled Excavation with Soil	May 20, 2014
Collected Groundwater Samples	May 21, 2014
Submitted RA Summary Report	June, 2014

4.0 REFERENCES

- Shaw Environmental, Inc (Shaw), 2013a, PCB Characterization Work Plan, Former GST Steel Facility Site, Kansas City, Missouri, February 12, 2013.
- Shaw Environmental, Inc (Shaw), 2013b, Site Specific Health and Safety Plan, Former GST Steel Facility Site, Kansas City, Missouri, March, 2013.
- Shaw Environmental, Inc (Shaw), 2013c, Removal Action Plan, Former GST Steel Facility Site, Kansas City, Missouri, July 18, 2013.
- Shaw Environmental, Inc (Shaw), 2013d, PCB Characterization Work Plan Addendum, Former GST Steel Facility Site, Kansas City, Missouri, November 6, 2013.

Tables

Table 1 Sample Analytical Summary Former GST Steel Facility Kansas City, Missouri

Sample ID Vault Samples	Date Sampled	Excavation	Excavation Depth (ft)	Ground Surface (ft)	Sample Interval (ft)	PCB (mg/kg)
Vault Fill	08/01/13	Vault	NA	N/A	0.1	
Vault Water	08/01/13	Vault	NA NA	NA NA	0-1	1.3
		Vault	NA	NA	0-1	0.0372
Vault Chip North	10/01/13	Vault	NA	NA	Surface	2.1
Vault Chip South	10/01/13	Vault	NA	NA NA	Surface	2
Chip 1	03/13/13	Vault Top	NA	NA	Surface	7.4
Chip 2	03/13/13	Vault Top	NA	NA	Surface	2.1
Chip 3	04/03/13	Concrete Pad	NA	NA	Surface	1,100
Chip 4	04/03/13	Concrete Pad	NA	NA	Surface	99
Chip 5	04/03/13	Concrete Pad	NA	NA	Surface	10
Chip 6	04/03/13	Concrete Pad	NA	NA	Surface	42
					Surrece	42
Confirmation Sampl	es					
CS-113W	08/01/13	Exacavation 1	5.5	ND	0-1	<0.025
CS-112W	08/01/13	Exacavation 1	5.5	ND	0-1	1.2
CS-108	08/01/13	Exacavation 1	5.5	ND	0-1	3.6
CS-117	08/01/13	Exacavation 1	5.5	ND	0-1	
CS-101S	08/01/13	Exacavation 4	4			0.44
CS-1013	08/01/13			6.6	0-1	230
		Exacavation 2	10	6.93	0-1	22
CS-102E	08/01/13	Exacavation 2	10	7.07	0-1	0.25
CS-110N	08/01/13	Exacavation 3	3.5	ND	0-1	0.53
CS-105N	08/01/13	Exacavation 3	3.5	ND	0-1	0.3
Characterization Sar						
CS-301	08/20/13	Southeast	4	4.51	6-8	0.11
					8-10	0.18
					10-12	NT
					14-16	NT
CS-302	08/20/13	Exacavation 4	4	4.7	6-8	0.16
	00/20/10	-Addayation 4	7	4./		
					8-10	0.4
					10-12	NT
CC 202	00/20/42	Count			14-16	0.15
CS-303	08/20/13	Southeast	10	5.07	12-14	NT
					14-16	0.99
					16-18	NT
					18-20	NT
CS-304	08/20/13	Exacavation 2	10	6.75	12-14	0.17
					16-18	0.65
			-		20-22	0.25
					24-26	NT
					28-30	NT
CS-305	08/20/13	Exacavation 2	10	6.87	12-14	50
				0.07	16-18	3.6
					20-22	0.014
					24-26	NT
CS-306	09/20/12	North cost	10	4.40	28-30	NT
-3-306	08/20/13	Northeast	10	4.19	12-14	NT
					16-18	0.056
					20-22	NT
					24-26	NT
					28-30	NT
CS-307	08/20/13	Northeast	10	4.39	12-14	0.18
					16-18	260
					20-22	740
					24-26	0.04
					28-30	15
CS-308	08/20/13	Northeast	10	3.49	12-14	NT
	,,12		10	5.43		
					16-18	0.057
					20-22	0.015
					24-26	NT
CC 200	00/20/12	N			28-30	NT
CS-309	08/20/13	Northeast	10		12-14	NT
					16-18	NT
					20-22	NT
		-			24-26	NT
					28-30	NT
CS-102	08/20/13	Exacavation 2	10	6.93	10-12	2.4
					14-16	0.29
					17-19	NT
CS-102E (202)	08/20/13	Exacavation 2	10	7.07	10-12	0.15
\	,,20			7.07		
					14-16	580
S-101S	08/20/12	Evacauatio- 4	4		17-19	0.013
~- T0T2	08/20/13	Exacavation 4	4	6.6	4-6	8.4
					6-8	NT
					10-12	0.55
S-117	08/20/13	Southeast	5.5	6.21	6-8	NT
		4			8-10	0.032
					10-12	NT
CS-121	08/20/13	Southeast	3.64	3.64	4-6	0.54
	-			210.1	6-8	NT
					8-10	NT
					10-12	
					10-17	NT

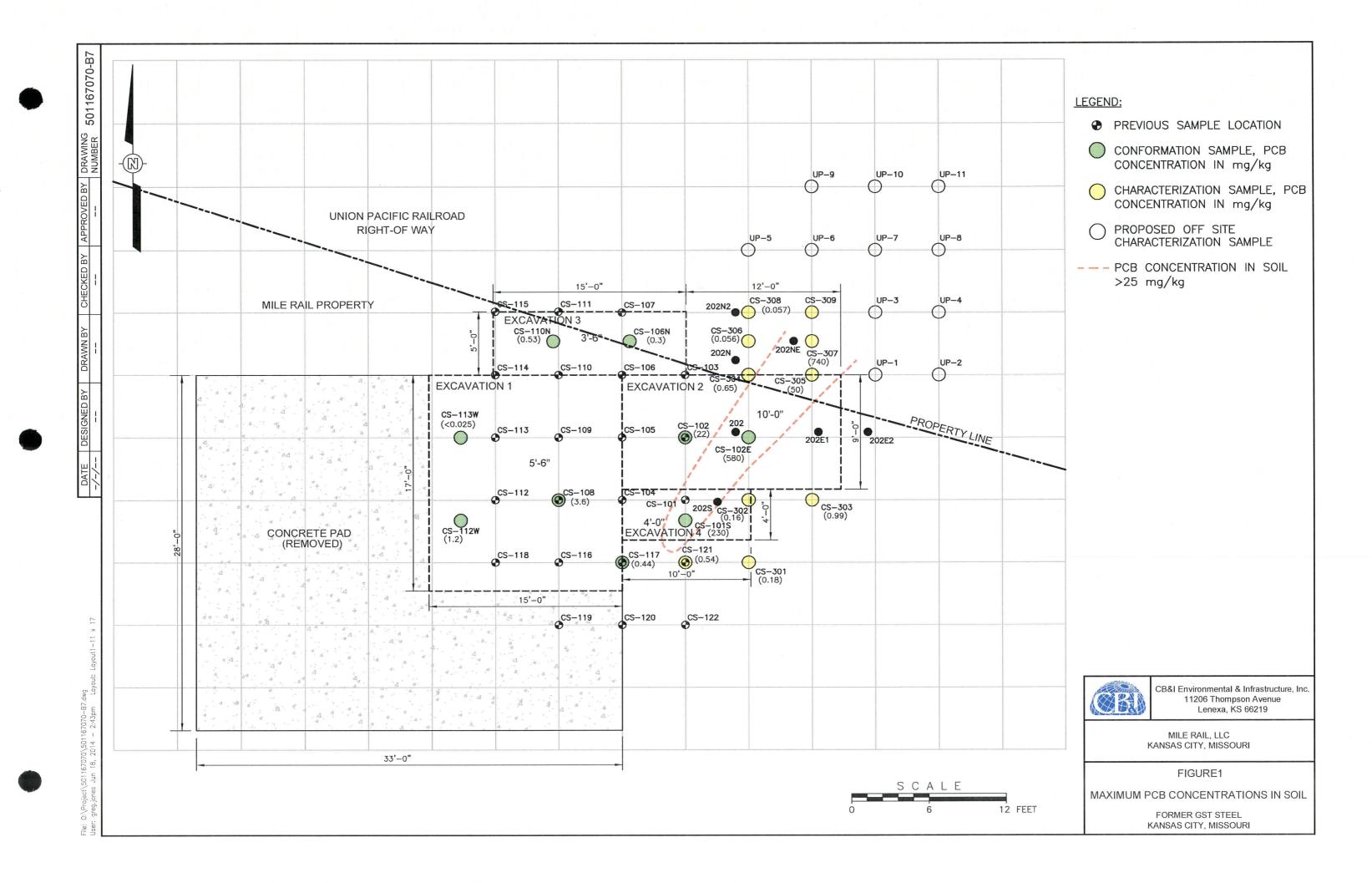
Note:
NT - Not Tested
ND - Not Determined
Sample depths referenced from top of pad in feet.
Exceeded 25 mg/kg of PCBs

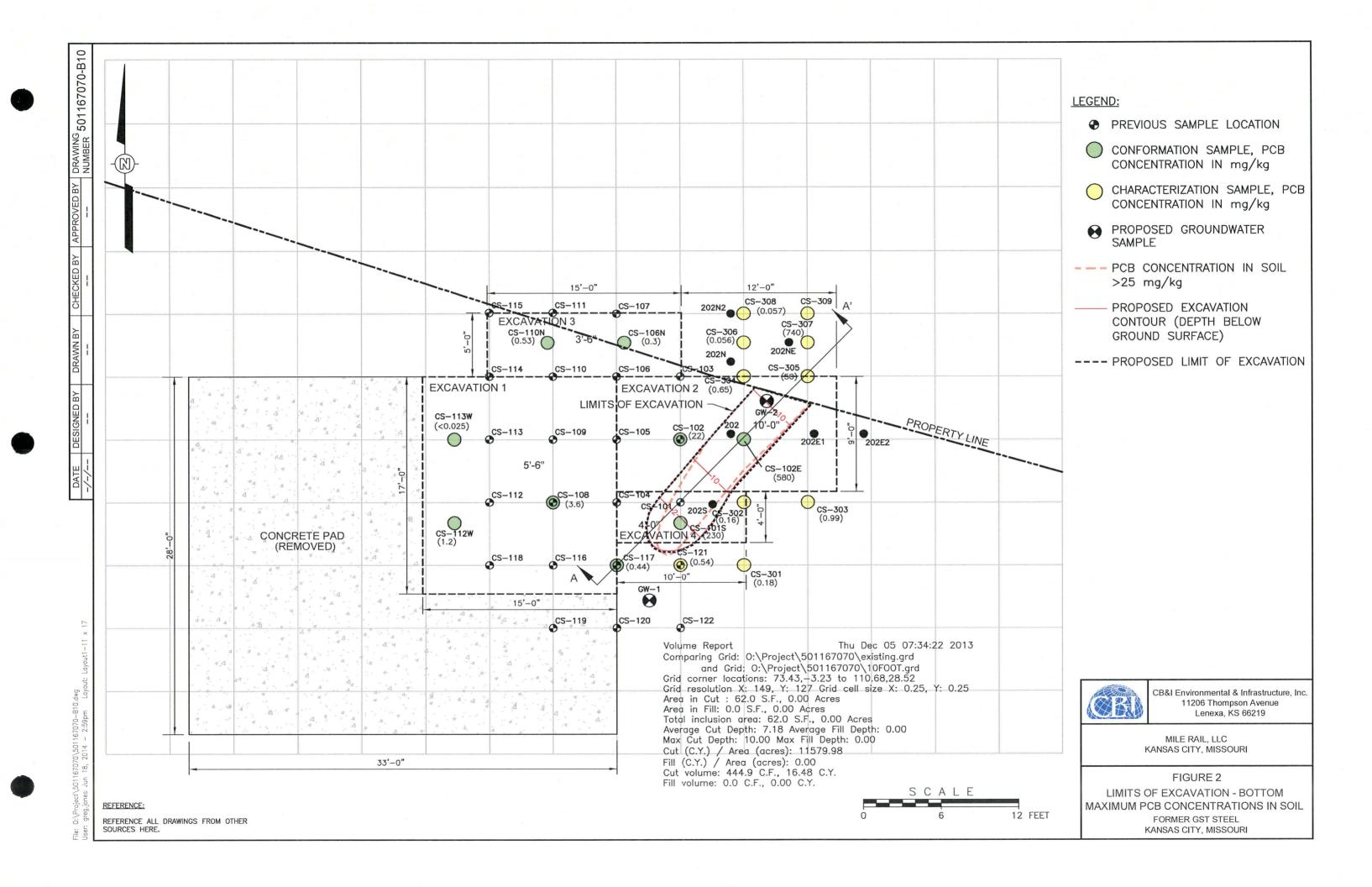
Table 2
Confirmation Sample Summary
Former GST Steel Facility
Kansas City, Missouri

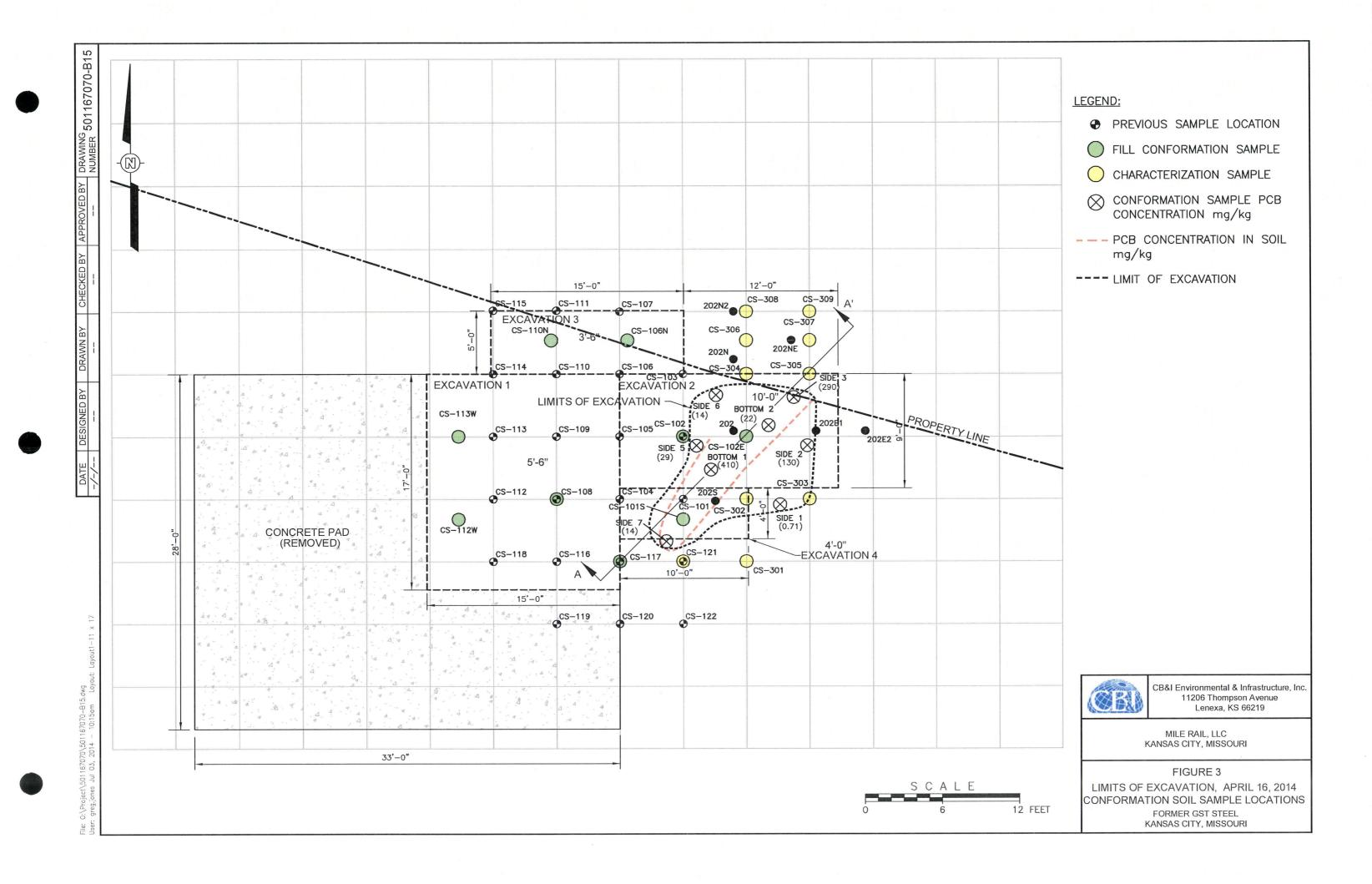
Sample ID	Sample Date	Ground Surface (ft)	Media	PCB - Aroclor 1260	Unit
Soil Confirma	ntion Samples				~
SIDE1	4/16/2014	8-9'	Soil	0.71	mg/kg
SIDE2	4/16/2014	8-9'	Soil	130	mg/kg
SIDE3	4/16/2014	8-9'	Soil	290	mg/kg
SIDE4	4/16/2014	8-9'	Soil	NS	mg/kg
SIDE5	4/16/2014	8-9'	Soil	29	mg/kg
SIDE6	4/16/2014	8-9'	Soil	14	mg/kg
SIDE7	4/16/2014	8-9'	Soil	14	mg/kg
BOTTOM1	4/16/2014	10.5-11'	Soil	410	mg/kg
воттом2	4/16/2014	10.5-11'	Soil	22	mg/kg
SIDE8	5/7/2014	8-9'	Soil	<0.017	mg/kg
SIDE9	5/7/2014	2-2.5'	Soil	<0.017	mg/kg
воттом3	5/7/2014	11.5-12'	Soil	0.024	mg/kg
Groundwate	Confirmation Sampl	es	E =		
GW-1	5/21/2014	26-30'	Groundwater	<0.5	ug/L
GW-2	5/21/2014	26-30'	Groundwater	<0.5	ug/L

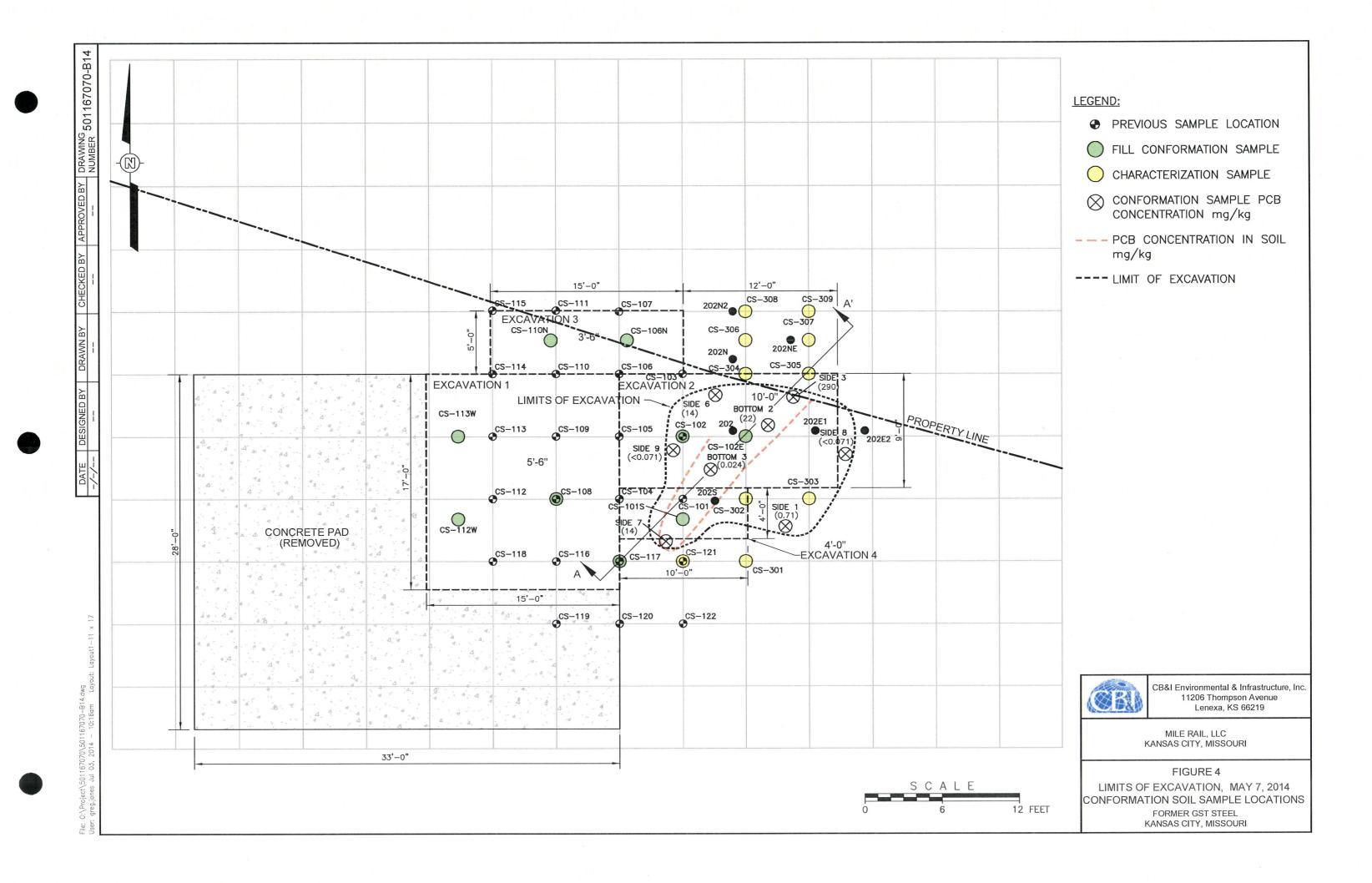
Exceeded Low Occpancy Limit of 25 mg/Kg. Required over excavation. Exceeded Low Occpancy Limit of 25 mg/Kg at property line.

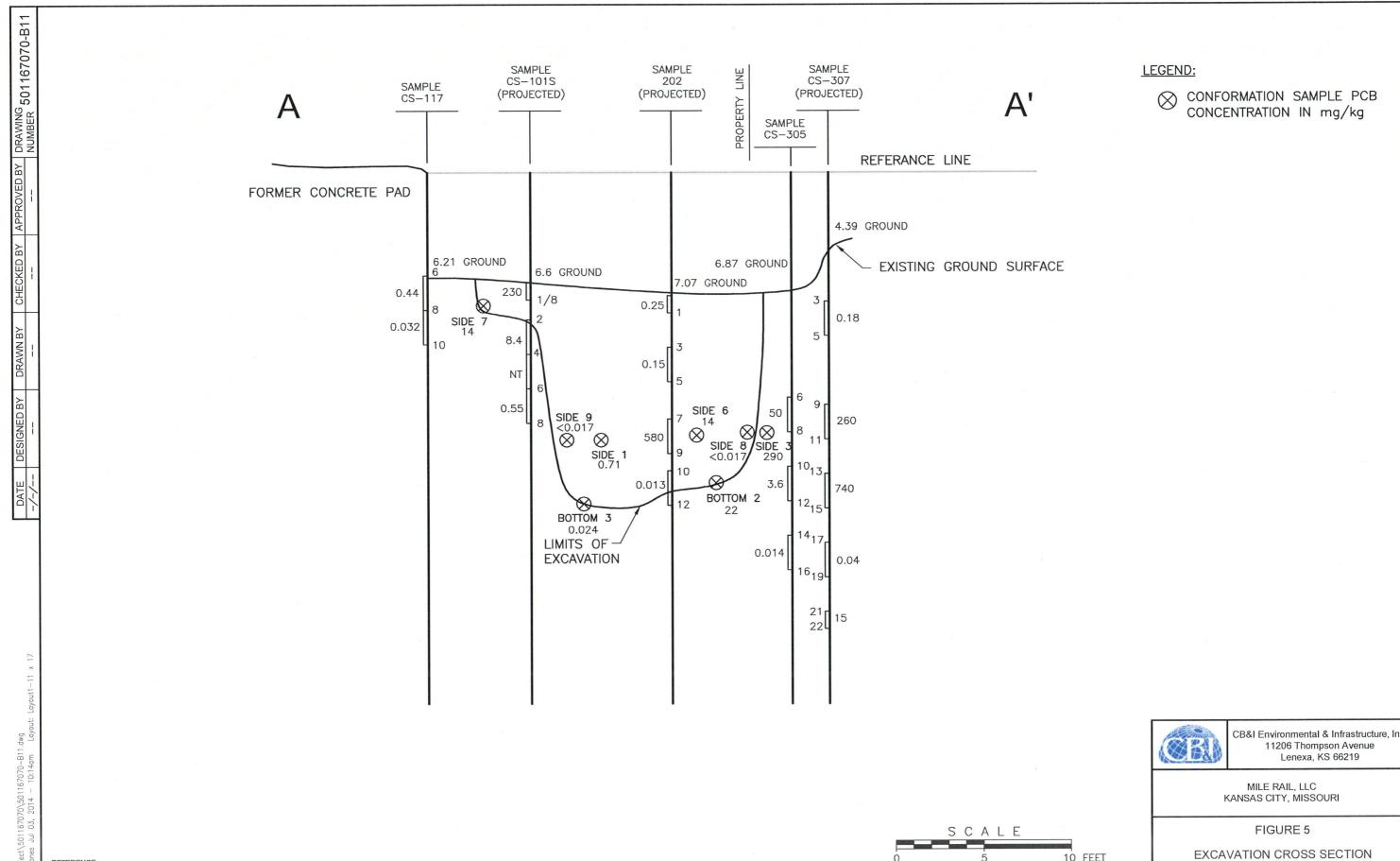
Figures











REFERENCE ALL DRAWINGS FROM OTHER SOURCES HERE.

10 FEET

CB&I Environmental & Infrastructure, Inc

FORMER GST STEEL KANSAS CITY, MISSOURI **Appendices**

Appendix A

Photographic Log

Photographic Documentation



Shaw Project Number: 148313

Photographer: Mark Finney

Location: Former GST Steel Site

Kansas City, MO

Client:

Mile Rail, LLC

Date: 3/21/2013



Description: Photo 1 Concrete Pad

Direction: East



Description: Photo 2 Sample Area



Photographer: Mark Finney

Location: Former GST Steel Site

Kansas City, MO

Client:

Mile Rail, LLC

Date: 3/21/2013



Description: Photo 3 Chip Sample 1 **Direction**: North



Description: Photo 4 Chip Sample 2



Photographer: Mark Finney

Location: Former GST Steel Site

Kansas City, MO

Client: Date: Mile Rail, LLC

4/03/2013



Description: Photo 5 Top of Vault

Direction: East



Description: Photo 6 Chip Samples 3, 4, & 5



Photographer: Mark Finney

Location: Former GST Steel Site

Kansas City, MO

Client:

Mile Rail, LLC 4/03/2013

Date: 4/03/2013



Description: Photo 7 Chip Sample 6 **Direction**: East



Description: Photo 8 Chip Samples 4-6

Direction: West



Photographer: Mark Finney

Location: Former GST Steel Site

Kansas City, MO

Client: Date:

Mile Rail, LLC

ate: 5/21/2013



Description: Photo 9 Fill Material Samples

Direction: East



Description: Photo 10 Fill Material Samples



Location: Former GST Steel Site

Kansas City, MO

Client: Date: Mile Rail, LLC

8/02/2013



Description: Photo 11 Concrete Pad

Direction: East



Description: Photo 12 Concrete Breaker

Direction: Southeast



Location: Former GST Steel Site

Kansas City, MO

Client: Date:

Mile Rail, LLC

8/02/2013



Description: Photo 13 Cutting Rebar

Direction: East



Description: Photo 14 Top of Vault

Direction: East



Shaw Project Number: 148313

Photographer: Mark Finney

Location: Former GST Steel Site

Kansas City, MO

Client: Date: Mile Rail, LLC

8/02/2013



Description: Photo 15

Broken Pad

Direction: East



Description: Photo 16 Truck Loading Area

Direction: East

Photographic Documentation



Shaw Project Number: 148313

Photographer: Mark Finney

Location: Former GST Steel Site

Kansas City, MO

Client:

Mile Rail, LLC

Date: 8/02/2013



Description: Photo 17 Vault Contents

Direction: Down/East



Description: Photo 18 Concrete Vault

Direction: South



Location: Former GST Steel Site

Kansas City, MO

Shaw Project Number: 148313 Photographer: Mark Finney

Client: Mile Rail, LLC Date: 8/02/2013



Description: Photo 19

Excavation

Direction: West



Description: Photo 20

Excavation

Direction: West

Photographic Documentation



Shaw Project Number: 148313

Photographer: Mark Finney

Location: Former GST Steel Site

Kansas City, MO

Client: Date: Mile Rail, LLC

4/16/2014



Description: Photo 21 Soil Excavation **Direction**: East



Description: Photo 22 Loading Trucks

Direction: West



Shaw Project Number: 148313

Photographer: Mark Finney

Location: Former GST Steel Site

Kansas City, MO

Client:

Mile Rail, LLC

Date: 4/16/2014



Description: Photo 23 Open Excavation

Direction: South



Description: Photo 24 Security Fence

Direction: East



Shaw Project Number: 148313

Photographer: Mark Finney

Location: Former GST Steel Site

Kansas City, MO

Client: Date: Mile Rail, LLC

5/07/2014



Description: Photo 25 Safety Fence, Previous

Excavation

Direction: East



Description: Photo 26 Safety Fence, Previous

Excavation

Direction: East



Location: Former GST Steel Site

Kansas City, MO

Client:

Mile Rail, LLC

Date: 5/07/2013



Description: Photo 27 Loading Trucks **Direction**: South



Description: Photo 28 Open Excavation

Direction: West



Location: Former GST Steel Site

Kansas City, MO

Client: Date: Mile Rail, LLC

5/20/2013



Description: Photo 29 Plastic at End of Excavation

Direction: Northeast



Description: Photo 30 Backfill in Vault

Direction: South



Shaw Project Number: 148313

Photographer: Mark Finney

Location: Former GST Steel Site

Kansas City, MO

Client:

Mile Rail, LLC 5/20/2013

Date: 5/20/2013



Description: Photo 31 Backfilling Excavation

Direction: East



Description: Photo 32 Excavation backfilled

Direction: East



Shaw Project Number: 148313

Photographer: Mark Finney

Location: Former GST Steel Site

Kansas City, MO

Client:

Mile Rail, LLC

Date: 5/21/2014



Description: Photo 33 Sample GW-2 Location

Direction: Northeast



Description: Photo 34 Sample GW-1 Location

Direction: Northeast

Appendix B

Laboratory Reports



April 22, 2014

Mark Finney CB&I - Lexana 11206 Thompson Avenue Lenexa, KS 66219 10450 Stancliff Rd. Suite 210 Houston, TX 77099 T: +1 281 530 5656 F: +1 281 530 5887 www.alsglobal.com

Work Order: HS14040610

Laboratory Results for: Former GST Steele PCB - 148313

Dear Mark,

ALS Environmental received 1 sample(s) on Apr 10, 2014 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: bethany.McDaniel

Bethany M. Daniel

Bethany McDaniel Project Manager

Client:

Lab Samp ID

CB&I - Lexana

Project: Former GST Steele PCB - 148313

Client Sample ID

Work Order: HS14040610

Work Order. The hearts

TagNo

Collection Date

Date:

Date Received

SAMPLE SUMMARY

22-Apr-14

Hold

HS14040610-01 Borrow Soil Soil 10-Apr-2014 09:45 10-Apr-2014 09:25

Matrix

Date:

CASE NARRATIVE

22-Apr-14

Client:

CB&I - Lexana

Project:

Former GST Steele PCB - 148313

Work Order:

HS14040610

Client: C

CB&I - Lexana

Project: Former GST Steele PCB - 148313

Sample ID:

Borrow Soil

Collection Date: 10-Apr-2014 09:45

Date:

22-Apr-14

ANALYTICAL REPORT

WorkOrder:HS14040610

Lab ID:HS14040610-01

Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT		DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		Method:SW8082		13/5		Analyst: SE
Aroclor 1016	ND	eżaniem na mierzanie pod	17	ug/Kg	1	18-Apr-2014 15:05
Arodor 1221	ND		17	ug/Kg	1	18-Apr-2014 15:05
Aroclor 1232	ND		17	ug/Kg	1	18-Apr-2014 15:05
Aroclor 1242	ND		17	ug/Kg	1	18-Apr-2014 15:05
Aroclor 1248	ND		17	ug/Kg	1	18-Apr-2014 15:05
Aroclor 1254	ND		17	ug/Kg	1	18-Apr-2014 15:05
Aroclor 1260	ND		17	ug/Kg	1	18-Apr-2014 15:05
Surr: Decachlorobiphenyl	106		54-143	%REC	1	18-Apr-2014 15:05
Surr: Tetrachloro-m-xylene	76.7		55-137	%REC	1	18-Apr-2014 15:05

Date:

22-Apr-14

Client:

CB&I - Lexana

Project:

Former GST Steele PCB - 148313

DATES REPORT

WorkOrder:

HS14040610

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 808	303a Test Nan	ne; PCBS BY SW8082A		Matrix: S	oii	
HS14040610-0	1 Borrow Soil	10 Apr 2014 09:45		16 Apr 2014 10:10	18 Apr 2014 15:05	1

Date:

22-Apr-14

Client:

CB&I - Lexana

WorkOrder:

HS14040610

Project:

Former GST Steele PCB - 148313

QC BATCH REPORT

Batch ID: 80803a			Instrun	nent:	ECD_7		Metho	d: SW808	32		
MBLK :	Sample ID:	PBLKS2-140416			Units: ı	ıg/Kg	Ana	lysis Date:	18-Apr-20	14 12:19	
Client ID:		I	Run ID:	ECD_7_2	232303	SeqNo:	2802983	PrepDate	16-Apr-20	14 DF	:1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016		ND	17	· ·			•				
Aroclor 1221		ND	17					10.2			
Aroclor 1232		ND	17								
Aroclor 1242	***************************************	ND	17					****			
Aroclor 1248		ND	17								
Aroclor 1254		ND	17								
Aroclor 1260		ND	17								
Surr: Decachlorobiph	enyl	6.72	1.6	6.667	0	101	54 - 143			70 HA Minnestern	
Surr: Tetrachloro-m->	ylene	6.115	1.6	6.667	0	91.7	55 - 137				

LCS S	ample ID:	PLCSS2-140416			Units: u	ıg/Kg	Ana	ılysis Date:	18-Apr-201	4 12:34	
Client ID:		F	Run ID:	ECD_7_2	32303	SeqNo:	2802984	PrepDate:	16-Apr-201	4 DF:	1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Aroclor 1016		167.1	17	166.7	0	100	53 - 135				
Aroclor 1260		181.3	17	166.7	0	109	54 - 137				
Surr: Decachlorobiphe	enyl	7.889	1.6	6.667	0	118	54 - 143				
Surr: Tetrachloro-m-x	ylene	6.907	1.6	6.667	0	104	55 - 137	**************************************			

MS S	ample ID:	HS14040469-01	MS		Units:	ug/Kg	Ana	lysis Date:	18-Apr-2014	11:48	
Client ID:			Run ID:	ECD_7_2	232303	SeqNo:	2802981	PrepDate:	16-Apr-2014	DF:	1
Analyte		Result	PQL	. SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016		169.2	17	166.5	0	102	53 - 135				
Aroclor 1260		181.9	17	166.5	0	109	54 - 137				
Surr: Decachlorobiphe	enyl	7.465	1.6	6.658	. 0	112	54 - 143				
Surr: Tetrachloro-m-xy	dene	6.569	1.6	6.658	0	98.7	55 - 137	****			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Date:

22-Apr-14

Client:

CB&I - Lexana

WorkOrder:

HS14040610

Project:

Former GST Steele PCB - 148313

QC BATCH REPORT

Batch ID: 8080	3a -		Instrun	nent:	ECD_7		Metho	d: SW808	2		Pika _{lo} Pittag
MSD	Sample ID:	HS14040469-01	MSD		Units:	ug/Kg	Ana	lysis Date:	18-Apr-20	14 12:03	
Client ID:		1	Run ID:	ECD_7_	232303	SeqNo:	2802982	PrepDate:	16-Apr-20	14 D	F: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016		178.3	17	166.5	0	107	53 - 135	169.2	5.21	30	
Aroclor 1260		185.4	17	166.5	0	111	54 - 137	181.9	1.91	30	
Surr: Decachloro	biphenyl	7.971	1.6	6.658	0	120	54 - 143	7.465	6.56	30	
Surr: Tetrachloro	-m-xylene	7.03	1.6	6.658	0	106	55 - 137	6.569	6.78	30	

The following samples were anayzed in this batch: HS14040610-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

s

U

Unit Reported

μg/Kg

Description

Micrograms per Kilogram

Client: CB&I - Lexana

Project: Former GST Steele PCB - 148313

WorkOrder: HS14040610

QUALIFIERS,

ACRONYMS, UNITS

22-Apr-14

Date:

Qualifier	Description
*	Value exceeds Regulatory Limit
а	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
Н	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
М	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
0	Sample amount is > 4 times amount spiked
Р	Dual Column results percent difference > 40%
R	RPD above laboratory control limit

Acronym	Description
Acronym	
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution

Spike Recovery outside laboratory control limits

Analyzed but not detected above the MDL

CERTIFICATIONS, ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	AR - 2014	27-Mar-2015
California	06248CA 2013-2014	31-Jul-2014
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015
Illinois	003180	09-May-2014
Kansas	E-10352 8/15/2013-2014	31-Jul-2014
Kentucky	95 Year- 2013	30-Apr-2014
Louisiana	03087 2013/2014	30-Jun-2014
North Carolina	624 - 2014	31-Dec-2014
Oklahoma	2013-024	31-Aug-2014
Texas	T104704231-13-12	30-Apr-2014

Date:

22-Apr-14

Client:

CB&I - Lexana

Project:

Former GST Steele PCB - 148313

Work Order:

HS14040610

SAMPLE TRACKING

Lab Samp ID

Client Sample ID

Action

Date

Person

New Location

HS14040610-01

Borrow Soil

Login

14-Apr-14 03:19

DRC

13D



Cincinnati, OH +1 513 733 5336

Fort Collins, CO +1 970 490 1511



Houston, TX +1 281 530 5656 Middletown, PA +1 717 944 5541

Spring City, PA +1 610 948 4903 Sait Lake City, UT +1 801 266 7700 South Charl +1 304 356 3168

York, PA +1 717 505 5280

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Holland, MI +1 616 399 6070 Everett, WA +1 425 356 2600 92946

(A	(ALS)				(COC ID:	9294	16										
Enviro	ıme	ntal				ALS:Project						ALS	Work	Order	#:			
C	ustomer	Information		Pr	oject Inform	ation				Par	amet	er/Me	thod F	Reque	st for A	Analys	is	
Purchase Order			Project Na	me	Former GST S	teele		A	PCB-	8082					<u>,</u>		~~~	
Work Order			Project Numi	per	14831	3		В										
Company Name	CB&I -	Lexana	Bill To Compa	any 🏻	C B&I Governir	nent Solutions	Inc	c	_									
Send Report To	Mark F	nney	Invoice A	ttn.	A/P			D				HS	140)406	510			÷
Address	11206	Thompson Avenue	Äddre)SS	8116 Wilson R	oad		E	· 		F	:	CB&I -	Lexana		13		
City/State/Zip	Lenexa	KS 66219	City/State/	Zip	Kansas City, N	10 84125		G										
Phone	(913) 3	17-3591	Pho	ne				Н									! !!!! !	
Fax			F	ax				1										
e-Mail Address		nney@cbi.com	e-Mail Addre	988	ap.invoices@C			Ű				i						
No.	Sample	Description	Date	Time	1000mm 100mm 100	A STATE OF THE PARTY OF THE PAR	# Bottles	A	В	C	D	\$ E	F	G.	H		NO.	Hold
Borrow	ئی ر	oil	4-10-14	094	15 Soil	8		X						<u> </u>				
2								, , , , , , , , , , , , , , , , , , ,	7									
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7				7														
8						·						:						
9																		
10							,										İ	
Sampler(s) Please Pr	int & Sign Press	sardt	Shipment Foot		< R	Std 10	ound Time: (NK Davs	Check X5W	Box) (Davs		ner VK Day	s ((24 Hot	a ar	esults (Jue Da 1/8	1/4 1/4	
Relinquished by	<u> </u>	4-10-14	1100	Received	-			Notes:	*******	2. 404	astronia de la composición dela composición de la composición de la composición de la composición dela composición dela composición dela composición de la composición de la composición dela composición de la composición dela composición	de la company	Company Street	and a set of			14.112	
Relinquished by:		Date: 4-11-14	9:25		by (Laboratory)			Coc	eler ID	Cools	r Temp	499	_	e: (Chec el II Sid				RP CheckList
Logged by (Laboratory):		Date:			by (Leboratory): aHSQ2 7-Q1	her 8-4°C	9-5035	1600 1705 1		2.00			Lev	el III Sid el IV SW	QC/Rav 846/CLF	/ Data		RP Level IV
Preservative Key:	1-HCI	2-HNO; 3-H,SO, 4-N	BOH 5-Na ₂ S ₂ O ₃	O-M		101 0-4 U	9-003 0	科學學		0.00	2000年1	333	Oth	er/EDD				

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Page 11 of 12

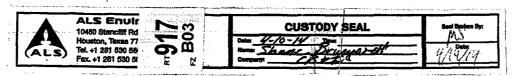
TRK# 8052 9842 3857

FRI - 11 APH 10:00A PRIORITY OVERNIGHT

NC SGRA

77099 TX-US IAH







21-Apr-2014

Mark Finney CB&I Government Solutions, Inc. 11206 Thompson Ave. Lenexa, KS 66219

Re: Former GST Steele 148313

Work Order: 1404964

Dear Mark,

ALS Environmental received 10 samples on 18-Apr-2014 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 20.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 3

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTIER

Date: 21-Apr-14

Client:

CB&I Government Solutions, Inc.

Project:

Former GST Steele 148313

Work Order:

1404964

XX71-	O1	C I	- C	
Work	()rder	Samni	e Sum	ımarv

Lab Samp ID	Client Sample ID	<u>Matrix</u>	Tag Number	Collection Date	Date Received	<u>Hold</u>
1404964-01	Side 1	Soil		4/16/2014 14:25	4/18/2014 10:00	
1404964-02	Side 2	Soil		4/16/2014 14:30	4/18/2014 10:00	
1404964-03	Side 3	Soil		4/16/2014 14:35	4/18/2014 10:00	
1404964-04	Side 4	Soil		4/16/2014 14:40	4/18/2014 10:00	✓
1404964-05	Side 5	Soil		4/16/2014 14:45	4/18/2014 10:00	
1404964-06	Side 6	Soil		4/16/2014 14:50	4/18/2014 10:00	
1404964-07	Bottom 1	Soil		4/16/2014 14:15	4/18/2014 10:00	
1404964-08	Bottom 2	Soil		4/16/2014 14:20	4/18/2014 10:00	
1404964-09	Duplicate	Soil		4/16/2014	4/18/2014 10:00	
1404964-10	Side 7	Soil		4/16/2014 14:55	4/18/2014 10:00	

Date: 21-Apr-14

Client:

CB&I Government Solutions, Inc.

Project:

Former GST Steele 148313

Work Order:

1404964

Case Narrative

Batch 57692, Method PCB_8082_S, Sample 1404964-03A: Elevated levels of aroclor 1260 in sample caused high recovery for DCB.

Batch 57692, Method PCB_8082_S, Sample 1404964-07A: Elevated levels of aroclor 1260 in sample caused high recovery for DCB.

Date: 21-Apr-14

Client:

CB&I Government Solutions, Inc.

Project:

Former GST Steele 148313

WorkOrder:

μg/Kg-dry

Micrograms per Kilogram Dry Weight

1404964

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
0	Sample amount is > 4 times amount spiked
P R	Dual Column results percent difference > 40%
S	RPD above laboratory control limit Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
Α	APHA Standard Methods
D	ASTM
E	EPA
sw	SW-846 Update III
Units Reported	Description
% of sample	Percent of Sample

Date: 21-Apr-14

Client:

CB&I Government Solutions, Inc.

Project:

Note:

Former GST Steele 148313

Sample ID:

Side 1

Collection Date: 4/16/2014 02:25 PM

Work Order: 1404964

Lab ID: 1404964-01

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082	2	Prep: SW3541 / 4/18/14	Analyst: JD
Aroclor 1016	U		120	μg/Kg-dry	1	4/18/2014 07:14 PM
Aroclor 1221	U		120	μg/Kg-dry	1	4/18/2014 07:14 PM
Aroclor 1232	U		120	μg/Kg-dry	1	4/18/2014 07:14 PM
Aroclor 1242	U		120	μg/Kg-dry	1	4/18/2014 07:14 PM
Aroclor 1248	U		120	μg/Kg-dry	1	4/18/2014 07:14 PM
Aroclor 1254	U		120	μg/Kg-dry	1	4/18/2014 07:14 PM
Aroclor 1260	710		120	μg/Kg-dry	1	4/18/2014 07:14 PM
PCBs, Total	720			μg/Kg-dry	1	4/18/2014 07:14 PM
Surr: Decachlorobiphenyl	95.1		40-140	%REC	1	4/18/2014 07:14 PM
Surr: Tetrachloro-m-xylene	90.1		45-124	%REC	1	4/18/2014 07:14 PM
MOISTURE			A2540 (3		Analyst: AT
Moisture	33		0.050	% of samp	ole 1	4/18/2014 03:07 PM

Date: 21-Apr-14

Client:

CB&I Government Solutions, Inc.

Project:

Note:

Former GST Steele 148313

Sample ID:

Side 2

Collection Date: 4/16/2014 02:30 PM

Work Order: 1404964

Lab ID: 1404964-02

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW808	2	Prep: SW3541 / 4/18/14	Analyst: JD
Aroclor 1016	U		120	µg/Kg-dry	1	4/18/2014 07:30 PM
Arodor 1221	U		120	μg/Kg-dry	1	4/18/2014 07:30 PM
Arodor 1232	U		120	μg/Kg-dry	1	4/18/2014 07:30 PM
Aroclor 1242	U		120	μg/Kg-dry	1	4/18/2014 07:30 PM
Aroclor 1248	U		120	μg/Kg-dry	1	4/18/2014 07:30 PM
Aroclor 1254	U		120	μg/Kg-dry	1	4/18/2014 07:30 PM
Aroclor 1260	130,000		12,000	μg/Kg-dry	100	4/21/2014 12:15 PM
PCBs, Total	130,000			μg/Kg-dry	100	4/21/2014 12:15 PM
Surr: Decachlorobiphenyl	117		40-140	%REC	1	4/18/2014 07:30 PM
Surr: Tetrachloro-m-xylene	97.1		45-124	%REC	1	4/18/2014 07:30 PM
MOISTURE			A2540	G		Analyst: AT
Moisture	30		0.050	% of samp	ole 1	4/18/2014 03:07 PM

ALS Group CSA, Corp

CB&I Government Solutions, Inc.

Project: Former GST Steele 148313

Sample ID: Side 3

Client:

Note:

Collection Date: 4/16/2014 02:35 PM

Date: 21-Apr-14

Work Order: 1404964

Lab ID: 1404964-03

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep: SW3541 / 4/18/14	Analyst: JD
Aroclor 1016	U		110	μg/Kg-dry	1	4/18/2014 07:46 PM
Aroclor 1221	U		110	μg/Kg-dry	1	4/18/2014 07:46 PM
Aroclor 1232	U		110	μg/Kg-dry	1	4/18/2014 07:46 PM
Aroclor 1242	U		110	μg/Kg-dry	1	4/18/2014 07:46 PM
Aroclor 1248	U		110	μg/Kg-dry	1	4/18/2014 07:46 PM
Aroclor 1254	U		110	μg/Kg-dry	1	4/18/2014 07:46 PM
Aroclor 1260	290,000		11,000	μg/Kg-dry	100	4/21/2014 12:32 PM
PCBs, Total	290,000			μg/Kg-dry	100	4/21/2014 12:32 PM
Surr: Decachlorobiphenyl	143	s	40-140	%REC	1	4/18/2014 07:46 PM
Surr: Tetrachloro-m-xylene	91.1		45-124	%REC	1	4/18/2014 07:46 PM
MOISTURE			A2540 G	;		Analyst: AT
Moisture	28		0.050	% of samp	ole 1	4/18/2014 03:07 PM

Client:

CB&I Government Solutions, Inc.

Project:

Note:

Former GST Steele 148313

Sample ID:

Side 5

Work Order: 1404964

Lab ID: 1404964-05

Date: 21-Apr-14

Collection Date: 4/16/2014 02:45 PM

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW808	2	Prep: SW3541 / 4/18/14	Analyst: JD
Aroclor 1016	U		110	μg/Kg-dry	1	4/18/2014 08:18 PM
Aroclor 1221	ប		110	μg/Kg-dry	1	4/18/2014 08:18 PM
Aroclor 1232	U		110	μg/Kg-dry	1	4/18/2014 08:18 PM
Araclor 1242	U		110	μg/Kg-dry	1	4/18/2014 08:18 PM
Araclor 1248	U		110	μg/Kg-dry	1	4/18/2014 08:18 PM
Aroclor 1254	U		110	μg/Kg-dry	1	4/18/2014 08:18 PM
Aroclor 1260	29,000		1,100	μg/Kg-dry	10	4/21/2014 01:04 PM
PCBs, Total	28,000			μg/Kg-dry	10	4/21/2014 01:04 PM
Surr: Decachlorobiphenyl	107		40-140	%REC	1	4/18/2014 08:18 PM
Surr: Tetrachloro-m-xylene	95.1		45-124	%REC	1	4/18/2014 08:18 PM
MOISTURE			A2540 (3		Analyst: AT
Moisture	26		0.050	% of samp	ele 1	4/18/2014 03:07 PM

Date: 21-Apr-14

Client:

CB&I Government Solutions, Inc.

Project:

Note:

Former GST Steele 148313

Sample ID:

Side 6

Collection Date: 4/16/2014 02:50 PM

Work Order: 1404964

Lab ID: 1404964-06

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW808	2	Prep: SW3541 / 4/18/14	Analyst: JD
Aroclor 1016	U		110	μg/Kg-dry	1	4/18/2014 08:35 PM
Aroclor 1221	U		110	μg/Kg-dry	1	4/18/2014 08:35 PM
Aroclor 1232	U		110	μg/Kg-dry	1	4/18/2014 08:35 PM
Aroclor 1242	U		110	μg/Kg-dry	1	4/18/2014 08:35 PM
Aroclor 1248	U		110	μg/Kg-dry	1	4/18/2014 08:35 PM
Aroclor 1254	U		110	μg/Kg-dry	1	4/18/2014 08:35 PM
Aroclor 1260	14,000		560	μg/Kg-dry	5	4/21/2014 01:20 PM
PCBs, Total	14,000			μg/Kg-dry	5	4/21/2014 01:20 PM
Surr: Decachlorobiphenyl	96.1		40-140	%REC	1	4/18/2014 08:35 PM
Surr: Tetrachloro-m-xylene	89.1		45-124	%REC	1	4/18/2014 08:35 PM
MOISTURE			A2540	G		Analyst: AT
Moisture	29		0.050	% of samp	ole 1	4/18/2014 03:07 PM

Client:

CB&I Government Solutions, Inc.

Project:

Former GST Steele 148313

Sample ID:

Bottom 1

Collection Date: 4/16/2014 02:15 PM

Date: 21-Apr-14

Work Order: 1404964

Lab ID: 1404964-07

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW808	2	Prep: SW3541 / 4/18/14	Analyst: JD
Aroclor 1016	U		99	μg/Kg-dry	1	4/18/2014 09:07 PM
Aroclor 1221	U		99	μg/Kg-dry	1	4/18/2014 09:07 PM
Aroclor 1232	U		99	μg/Kg-dry	1	4/18/2014 09:07 PM
Aroclor 1242	U		99	μg/Kg-dry	1	4/18/2014 09:07 PM
Aroclor 1248	U		99	μg/Kg-dry	1	4/18/2014 09:07 PM
Aroclor 1254	U		99	μg/Kg-dry	1	4/18/2014 09:07 PM
Aroclor 1260	400,000		20,000	μg/Kg-dry	200	4/21/2014 01:36 PM
PCBs, Total	410,000			μg/Kg-dry	200	4/21/2014 01:36 PM
Surr: Decachlorobiphenyl	161	S	40-140	%REC	1	4/18/2014 09:07 PM
Surr: Tetrachloro-m-xylene	101		45-124	%REC	1	4/18/2014 09:07 PM
MOISTURE			A2540	G		Analyst: AT
Moisture	16		0.050	% of samp	ole 1	4/18/2014 03:07 PM

CB&I Government Solutions, Inc.

Former GST Steele 148313 Project:

Bottom 2 Sample ID:

Client:

Note:

Collection Date: 4/16/2014 02:20 PM

Date: 21-Apr-14

Work Order: 1404964

Lab ID: 1404964-08

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW808	2	Prep: SW3541 / 4/18/14	Analyst: JD
Aroclor 1016	U		110	μg/Kg-dry	1	4/18/2014 09:23 PM
Aroclor 1221	U		110	μg/Kg-dry	1	4/18/2014 09:23 PM
Aroclor 1232	U		110	μg/Kg-dry	1	4/18/2014 09:23 PM
Aroclor 1242	U		110	μg/Kg-dry	1	4/18/2014 09:23 PM
Aroclor 1248	U		110	μg/Kg-dry	1	4/18/2014 09:23 PM
Aroclor 1254	U		110	μg/Kg-dry	1	4/18/2014 09:23 PM
Aroclor 1260	22,000		1,100	μg/Kg-dry	10	4/21/2014 01:52 PM
PCBs, Total	22,000			μg/Kg-dry	10	4/21/2014 01:52 PM
Surr: Decachlorobiphenyl	125		40-140	%REC	1	4/18/2014 09:23 PM
Surr: Tetrachloro-m-xylene	90.1		45-124	%REC	1	4/18/2014 09:23 PM
MOISTURE			A2540	3		Analyst: AT
Moisture	29		0.050	% of samp	ole 1	4/18/2014 03:07 PM

Collection Date: 4/16/2014

Client:

CB&I Government Solutions, Inc.

Project:

Former GST Steele 148313

Sample ID:

Note:

Duplicate

Work Order: 1404964

Lab ID: 1404964-09

Matrix: SOIL

Date: 21-Apr-14

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW808	2	Prep: SW3541 / 4/18/14	Analyst: JD
Aroclor 1016	U		120	μg/Kg-dry	1	4/18/2014 09:39 PM
Aroclor 1221	U		120	μg/Kg-dry	1	4/18/2014 09:39 PM
Aroclor 1232	U		120	μg/Kg-dry	1	4/18/2014 09:39 PM
Aroclor 1242	U		120	μg/Kg-dry	1	4/18/2014 09:39 PM
Aroclor 1248	U		120	μg/Kg-dry	1	4/18/2014 09:39 PM
Aroclor 1254	U		120	μg/Kg-dry	1	4/18/2014 09:39 PM
Aroclor 1260	220,000		12,000	μg/Kg-dry	100	4/21/2014 02:09 PM
PCBs, Total	220,000			μg/Kg-dry	100	4/21/2014 02:09 PM
Surr: Decachlorobiphenyl	128		40-140	%REC	1	4/18/2014 09:39 PM
Surr: Tetrachloro-m-xylene	91.1		45-124	%REC	1	4/18/2014 09:39 PM
MOISTURE			A2540	3		Analyst: AT
Moisture	30		0.050	% of samp	le 1	4/18/2014 03:07 PM

Date: 21-Apr-14

Client:

CB&I Government Solutions, Inc.

Project:

Note:

Former GST Steele 148313

Sample ID:

Side 7

Collection Date: 4/16/2014 02:55 PM

Work Order: 1404964

Lab ID: 1404964-10

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep: SW3541 / 4/18/14	Analyst: JD
Aroclor 1016	U		110	μg/Kg-dry	1	4/18/2014 09:55 PM
Aroclor 1221	U		110	μg/Kg-dry	1	4/18/2014 09:55 PM
Aroclor 1232	U		110	μg/Kg-dry	1	4/18/2014 09:55 PM
Aroclor 1242	U		110	μg/Kg-dry	1	4/18/2014 09:55 PM
Aroclor 1248	U		110	μg/Kg-dry	1	4/18/2014 09:55 PM
Aroclor 1254	U		110	μg/Kg-dry	1	4/18/2014 09:55 PM
Aroclor 1260	14,000		540	μg/Kg-dry	5	4/21/2014 02:25 PM
PCBs, Total	14,000			μg/Kg-dry	5	4/21/2014 02:25 PM
Surr. Decachlorobiphenyl	118		40-140	%REC	1	4/18/2014 09:55 PM
Surr: Tetrachloro-m-xylene	95.1		45-124	%REC	1	4/18/2014 09:55 PM
MOISTURE			A2540 G	;		Analyst: AT
Moisture	27		0.050	% of samp	ole 1	4/18/2014 03:07 PM

Client:

CB&I Government Solutions, Inc.

Work Order:

1404964

Project:

PCBs, Total

Surr: Decachlorobiphenyl

Surr: Tetrachloro-m-xylene

Former GST Steele 148313

QC BATCH REPORT

Date: 21-Apr-14

Batch ID: 57692	Instrument ID GC14		Method	: SW808	32					
MBLK	Sample ID: PBLKS1-57692-57692				Units: µg/	Kg .	Anal	ysis Date: 4	/18/2014	03:11 PM
Client ID:	Run ID:	GC14_	140418A		SeqNo: 272	23702	Prep Date: 4/	18/2014	DF: 1	19 56. 15
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	83								
Aroclor 1221	U	83								
Aroclor 1232	U	83								
Aroclor 1242	U	83								
Aroclor 1248	U	83								
Aroclor 1254	U	83							-	
Aroclor 1260	U	83								

0

0

0

U

32.33

31.67

LCS Sample ID: PLC		Units: µg/	Kg	Analysis Date: 4/18/2014 03:27 Pi					
Client ID:	Run ID	Run ID: GC14_140418A		ع د د	SeqNo: 272	3703	Prep Date: 4/18/2014 DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value %RPD	RPD Limit Qual	
Aroclor 1016	824	83	833	0	98.9	50-130	0		
Aroclor 1260	841.3	83	833	0	101	50-130	0		
Surr: Decachlorobiphenyl	32.67	0	33.3	0	98.1	40-140	0		
Surr: Tetrachloro-m-xylene	31.33	0	33.3	0	94.1	45-124	0		

0

0

97.1

95.1

40-140

45-124

0

0

33.3

33.3

MS Sample ID: 1404759-15B MS					Uni	ts: µg/l	Kg	Analysis Date: 4/18/2014 04:16 PM			
Client ID:	Run ID	Run ID: GC14_140418A			SeqNo: 2723706				Prep Date: 4/18/2014 DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	781.8	82	821.2	ı	0	95.2	40-140	(0		
Aroclor 1260	806.4	82	821.2	i	0	98.2	40-140	(0		
Surr: Decachlorobiphenyl	26.29	0	32.83	i	0	80.1	40-140	(0		
Surr: Tetrachloro-m-xylene	27.93	0	32.83		0	85.1	45-124		0		

MSD Sample ID: 1404759-15B MSD					Jnits: µg/l	Kg	Analysis Date: 4/18/2014 04:32 PM				
Client ID:	Run ID	Run ID: GC14_140418A			SeqNo: 2723707			Prep Date: 4/18/2014 DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aroclor 1016	776.4	81	807.4	0	96.2	40-140	781.8	0.697	50		
Aroclor 1260	801.9	81	807.4	0	99.3	40-140	806.4	0.566	50		
Surr: Decachlorobiphenyl	29.08	0	32.28	0	90.1	40-140	26.29	10.1	50		
Surr: Tetrachloro-m-xylene	29.08	0	32.28	0	90.1	45-124	27.93	4.01	50		

Note:

See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 1 of 3

Client:

CB&I Government Solutions, Inc.

Work Order:

1404964

Project:

Former GST Steele 148313

QC BATCH REPORT

Batch ID: 57692	Instrument ID GC14	Method:	SW8082	
The following sample	es were analyzed in this batch:	1404964-01A	1404964-02A	1404964-03A
•		1404964-04A	1404964-05A	1404964-06A
	•	1404964-07A	1404964-08A	1404964-09A
		1404964-10A		

Client:

CB&I Government Solutions, Inc.

Work Order:

1404964

Project:

Former GST Steele 148313

QC BATCH REPORT

Batch ID: R139271	Instrument ID MOIST	Method:	A2540 G
MBLK	Sample ID: WBLKS-R139271		Units: % of sample Analysis Date: 4/18/2014 03:07 Ph
Client ID:	Run II	D: MOIST_140418D	SeqNo: 2721759 Prep Date: DF: 1
		1 40 6 4	SPK Ref Control RPD Ref RPD
Analyte	Result	PQL SPK Val	Value %REC Limit Value %RPD Limit Qual
Moisture	U	0.050	
Lcs	Sample ID: LCS-R139271		Units: % of sample Analysis Date: 4/18/2014 03:07 PM
Client ID.	Run II): MOIST_140418D	SeqNo: 2721758 Prep Date: DF: 1
Analyte	Result		SPK Ref Control RPD Ref RPD Value %REC Limit Value %RPD Limit Qual
Moisture	100	0.050 100	0 100 99.5-100.5 0
DUP.	Sample ID: 1404964-10A DUP		Units: % of sample Analysis Date: 4/18/2014 03:07 PN
Client ID: Side 7	Run II	D: MOIST_140418D	SeqNo: 2721747
Analyte	Result	PQL SPK Val	SPK Ref Control RPD Ref RPD Value %REC Limit Value %RPD Limit Qual
Moisture	26.39	0.050 0	0 0 0-0 26.87 1.8 20
DUP	Sample ID: 1404991-01A DUP		Units: % of sample Analysis Date: 4/18/2014 03:07 PN
Client ID:	Run II	: MOIST_140418D	SeqNo: 2721757 Prep Date: DF: 1
Analyte	Result	PQL SPK Val	SPK Ref Control RPD Ref RPD Value %REC Limit Value %RPD Limit Qual
Moisture	16.64	0.050 0	0 0 0-0 16.46 1.09 20
The following samp	oles were analyzed in this batch:	1404964-01A 1404964-04A 1404964-07A 1404964-10A	1404964-02A 1404964-03A 1404964-05A 1404964-06A 1404964-08A 1404964-09A



Cincinnati, OH +1 513 733 5336

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Holland, MI +1 616 399 6070

Chain or Custody Form

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Salt Lake City, UT +1:801 266 7700

South Treston, WV +1 304 356 3168

York, PA +1 717 505 5280

Page __/ of

COC ID:

92911

Customer Information		
	Project Information	Parameter/Method Request for Analysis
Punchase Circler	egeName Former GST Steele	PCB-8082
N Work Order Project	Mumber 148313	
Company Name CB&! - Lexana Bill To.	C B&I Government Solutions, Inc.	
Sect Report to Mark Finney int	olos Atin AP	D
11206 Thompson Avenue	8116 Wilson Road	
City/State(Zip. Lehexa, KS 66219	State/Zin Kansas City, MO 64125	
(813) 317 ₅ 3591	Phone	
	Pax	
e-Mail Address mark.firmey@cbi.com e-Mail	Acidresia ap.involces@CBI.com	
Ng. Sample Description Date	June Metrix Pres, #Bottles	A B C D F F G H I T HOR
1 Side 1 4-16-	14 1425 5011 8 1	
2 5ide 2	430	
5.de3	14350	
Side 4	1940	
5 5:de 5	1445	
5 5 dz 6	1450	
1 Bottom	1415	
Bottom 2	1430	
9 Duplicate Y		
10 57de 7	1455 V V	
	Ipment Method Field EX Acquired Turneround Times (CI	heck Box) Contact A Results Due Date: TWA have 2 With Days 1 24 Hours
Relinquished Dets: 4/16/14 Time: 4/16/14	Received by:	Notes Fold Sample Side of
Refinquished by 4.17-14 1.13 Deta: 17-44 Time 9:30	Pycolved by (Laboratory): Peculo and Misho	Choine ID Copper Terms, IQC Package: SChade One Box Reliev)
Légoettby (Laterino); Time:	Checked by (Laboratory): () /Simp	Level II Sid QC/Rew Date TRRP Level IV

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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10450 Stancliff Road, Suite 210 Houston, TX 77099 T: +1 281 530 5656 F: +1 281 530 5887 www.alsglobal.com

Client: C	BAI	D	ate: _	41	1.14 wo#:	
Time Rece	eived: <u>9.13</u>	0	Rec	eived by:	1.6	•
Matrices:	Solid/Sludge	Water	Oil	Wines	Hydrocarbon Liquid	Other

Kit ID/Cooler ID	Trip Blank ID	Cooler Temp (C) Observed/Corrected	IR#	Temp BLK Present?
1268		0.3 / 0.3	1	Y N
		1:		Y N
	1000	1		γ Ν

Delivery Methods:	•	; .
FEDEX	ALS	
UPS	Client	
Greyhound	Other	

Date/Time of Unpacking: 10:133 4:17:14	_Unpacked_	<u>-</u> by	<u>יי כיינ</u>	- were not be pure and have
Shipping container/cooler in good-condition?			Not Present	- W. 18 - W. 1
Custody seals intact on shipping container/cooler?	Yes	Νo	Not Present	
Custody seals intact on sample bottles?	Yes	No	Not Present	
Chain of custody present?	O	No		
Chain of custody signed when relinquished and received	7 🚱	No		10 - 10 m - 1
Chain of custody agrees with sample labels?	(P)	No		
Samples in proper container/bottle?	0	No		en e
Sample containers intact?		No		
Sufficient sample volume for indicated test?		No	*	
All samples received within holding time?		No		
Container/Temp Blank temperature in compliance?		No		
Water - VOA vials have zero headspace?	Yes	No	No VOA vials	submitted
Water - pH acceptable upon receipt?	Yes	No		
pH adjusted?	Yes	No	(N/A)	. "
	ervation Logbo			
pH Paper Lot: VOA/T	X1005/1006 S	olids ir	n Sealed Vials:	y or N

THE 8052 9842 3905

THU - 17 APR 10:30A Priority overnight

NC-SGRA

77C

TX-U8



ALS PRETITE METITAL

JOHN SEAL

JOHN JUNE 1/1/4/2 MET 20

JOHN JUNE 2/2/2 MET 20

JOHN JUNE 2/2
2 MET

Client Name: CB&I - LENEXA

Sample Receipt Checklist

Date/Time Received:

18-Apr-14 10:00

Work Order:	<u>1404964</u>	<u>I</u>				Received b	y: <u>Jf</u>	3		
Checklist comple	_	Joseph Ribar		18-Apr-14		Reviewed by:	Chad Whe	elton		18-Apr-14
Matrices: Carrier name:	soil <u>FedEx</u>	eSignature		Date			eSignature			Date
Shipping contain	ner/coole	r in good condition?		Yes	✓	No 🗆	Not Present			
Custody seals in	itact on s	shipping container/coole	r?	Yes	Y	No 🗌	Not Present			
Custody seals in	itact on s	sample bottles?		Yes		No 🗌	Not Present	\checkmark		
Chain of custody	/ present	!?		Yes	V	No 🗆				
Chain of custody	signed	when relinquished and r	eceived?	Yes	✓	No 🗆				
Chain of custody	, agrees	with sample labels?		Yes	✓	No 🗌				
Samples in prop	er contai	iner/bottle?		Yes	v	No 🗆				
Sample containe	ers intact	?		Yes	✓	No 🗆				
Sufficient sample	e volume	for indicated test?		Yes	✓	No 🗆				
All samples rece	ived with	nin holding time?		Yes	V	No 🗆				
Container/Temp	Blank te	emperature in compliance	e?	Yes	V	No 🗆				
Sample(s) receiv				Yes 3.2 c	✓	No 🗆				
Cooler(s)/Kit(s):		(-)								
Date/Time samp	le(s) ser	nt to storage:		4/18/2	014 1	0:42:28 AM			_	
Water - VOA via	ls have z	zero headspace?		Yes		No 🗔	No VOA vials su	bmitted	✓	
Water - pH acce	ptable up	pon receipt?		Yes		No 🗆	N/A ☑			
pH adjusted? pH adjusted by:				Yes	Ш	No 🗀	N/A 🔽			
Login Notes:										
			=====		==	====	====	· <u>—</u> —	===:	=====
Client Contacted	l:		Date Contacted:			Person	Contacted:			
Contacted By:			Regarding:							
Comments:										
CorrectiveAction	ı:								SR	C Page 1 of 1



May 12, 2014

Mark Finney CB&I - Lexana 11206 Thompson Avenue Lenexa, KS 66219 10450 Stancliff Rd. Suite 210 Houston, TX 77099 T: +1 281 530 5656 F: +1 281 530 5887 www.alsglobal.com

Work Order: HS14050286

Laboratory Results for: Former GST Steele PCB 148313

Dear Mark,

ALS Environmental received 4 sample(s) on May 08, 2014 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: Ana.Spencer Bethany McDaniel

Bethany Mc Daniel

Project Manager

12-May-14

Client: Project: Work Order:	CB&I - Lexana Former GST Steele PCB 148313 HS14050286				SAMPLE SUMM	IARY
Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS14050286-01	SIDE 8	Soil		07-May-2014 11:45	08-May-2014 09:15	
HS14050286-02	SIDE 9	Soil		07-May-2014 12:01	08-May-2014 09:15	
HS14050286-03	BOTTOM 3	Soil		07-May-2014 12:13	08-May-2014 09:15	
HS14050286-04	BOTTOM 13	Soil		07-May-2014 12:13	08-May-2014 09:15	

Date:

CASE NARRATIVE

12-May-14

Client:

CB&I - Lexana

Project:

Former GST Steele PCB 148313

Work Order:

HS14050286

No Exceptions

12-May-14

Client: Project: CB&I - Lexana

Former GST Steele PCB 148313

Sample ID:

Collection Date:

SIDE 8

07-May-2014 11:45

ANALYTICAL REPORT

WorkOrder:HS14050286

Lab ID:HS14050286-01

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		Method:SW8082		Prep:SW	/3541/3665A / 09	May-2014 Analyst: SE
Aroclor 1016	ND	otik yetikiye ukusalikin sukukalikin kulu s	17	ug/Kg	1	09-May-2014 14:09
Aroclor 1221	ND		17	ug/Kg	1	09-May-2014 14:09
Aroclor 1232	ND		17	ug/Kg	1	09-May-2014 14:09
Aroclor 1242	ND		17	ug/Kg	1	09-May-2014 14:09
Aroclor 1248	ND		17	ug/Kg	1	09-May-2014 14:09
Aroclor 1254	ND		17	ug/Kg	1	09-May-2014 14:09
Aroclor 1260	ND		17	ug/Kg	1	09-May-2014 14:09
Surr: Decachlorobiphenyl	95.3	THE LANGE CONTRACTOR OF A CONTRACTOR OF THE CONT	54-143	%REC	1	09-May-2014 14:09
Surr: Tetrachloro-m-xylene	79.7		55-137	%REC	1	09-May-2014 14:09

Date:

12-May-14

Client:

CB&I - Lexana

ANALYTICAL REPORT

Project:

Former GST Steele PCB 148313

WorkOrder:HS14050286

Sample ID:

SIDE 9

Lab ID:HS14050286-02

Collection Date:

07-May-2014 12:01

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION	DATE ANALYZED
PCBS BY SW8082A		Method:SW8082		Prep:SW	/3541/3665A / 09	May-2014 Analyst: SE
Aroclor 1016	ND		17	ug/Kg	1	09-May-2014 14:55
Aroclor 1221	ND		. 17	ug/Kg	1	09-May-2014 14:55
Aroclor 1232	ND		17	ug/Kg	1	09-May-2014 14:55
Aroclor 1242	ND	Account of the second of the s	17	ug/Kg	1	09-May-2014 14:55
Aroclor 1248	ND		17	ug/Kg	1	09-May-2014 14:55
Aroclor 1254	ND		17	ug/Kg	1	09-May-2014 14:55
Aroclor 1260	ND		17	ug/Kg	1	09-May-2014 14:55
Surr: Decachlorobiphenyl	105		54-143	%REC	1	09-May-2014 14:55
Surr: Tetrachloro-m-xylene	85.5		55-137	%REC	1	09-May-2014 14:55

12-May-14

Client: Project: CB&I - Lexana

Former GST Steele PCB 148313

Sample ID: Collection Date: воттом з

07-May-2014 12:13

ANALYTICAL REPORT

WorkOrder:HS14050286

Lab ID:HS14050286-03

ANALYSES	RESULT	RESULT QUAL REPORT		UNITS	DILUTION FACTOR	DATE ANALYZED	
PCBS BY SW8082A		Method:SW8082		Prep:SW	3541/3665A / 09-	May-2014 Analy	/st: SE
Aroclor 1016	ND	HARRIELEN GEROLEN IN TERMENDER MINISTER MEN	17	ug/Kg	1	09-May-2014 1	15:10
Aroclor 1221	ND		17	ug/Kg	1	09-May-2014 1	15:10
Aroclor 1232	ND		17	ug/Kg	1	09-May-2014 1	15:10
Aroclor 1242	ND		17	ug/Kg	1	09-May-2014 1	15:10
Aroclor 1248	ND		17	ug/Kg	1	09-May-2014 1	15:10
Aroclor 1254	ND	· · · · · · · · · · · · · · · · · · ·	17	ug/Kg	1	09-May-2014 1	15:10
Aroclor 1260	24		17	ug/Kg	1	09-May-2014 1	15:10
Surr: Decachlorobiphenyl	98.6		54-143	%REC	1	09-May-2014 1	15:10
Surr: Tetrachloro-m-xylene	82.3		55-137	%REC	1	09-May-2014 1	15:10

Date:

12-May-14

Client:

CB&I - Lexana

ANALYTICAL REPORT

Project:

Former GST Steele PCB 148313

WorkOrder:HS14050286

Sample ID:

BOTTOM 13

Lab ID:HS14050286-04

Collection Date:

07-May-2014 12:13

ANALYSES	S RESULT		REPORT LIMIT	UNITS	DILUTION	DATE ANALYZED	
PCBS BY SW8082A		Method:SW8082		Prep:SW	/3541/3665A / 09	-May-2014 Analy	yst: SE
Aroclor 1016	ND	900	17	ug/Kg	1	09-May-2014	15:25
Aroclor 1221	ND		17	ug/Kg	1	09-May-2014	15:25
Aroclor 1232	ND		17	ug/Kg	1	09-May-2014	15:25
Aroclor 1242	ND		17	ug/Kg	1	09-May-2014	15:25
Aroclor 1248	ND		17	ug/Kg	1	09-May-2014	15:25
Aroclor 1254	ND	And the second s	17	ug/Kg	1	09-May-2014	15:25
Aroclor 1260	ND		17	ug/Kg	1	09-May-2014	15:25
Surr: Decachlorobiphenyl	88.8		54-143	%REC	1	09-May-2014	15:25
Surr: Tetrachloro-m-xylene	73.5		55-137	%REC	1	09-May-2014	15:25

Date:

12-May-14

Client:

CB&I - Lexana

Project:

Former GST Steele PCB 148313

WorkOrder:

HS14050286

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 8177	8 Test Nam	e: PCBS BY SW8082A		Matrix:	Soll	
HS14050286-01	SIDE 8	07 May 2014 11:45		09 May 2014 08:48	09 May 2014 14:09	1
HS14050286-02	SIDE 9	07 May 2014 12:01		09 May 2014 08:48	09 May 2014 14:55	1
HS14050286-03	ВОТТОМ 3	07 May 2014 12:13		09 May 2014 08:48	09 May 2014 15:10	1
HS14050286-04	BOTTOM 13	07 May 2014 12:13		09 May 2014 08:48	09 May 2014 15:25	1

12-May-14

Client:

CB&I - Lexana

WorkOrder:

HS14050286

QC BATCH REPORT

Project:

Former GST Steele PCB 148313

Batch ID: 81778			Instrur	nemia = (=CD_7		Metho	d: SW808	2	jain en	
MBLK	Sample ID:	MBLK-81778			Units:	ug/Kg	Ana	lysis Date:	09-May-2014	16:11	
Client ID:			Run ID:	ECD_7_2	33466	SeqNo:	2829902	PrepDate:	09-May-2014	DF:	1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016		ND	17								
Aroclor 1221		ND	17								
Aroclor 1232		ND	17								
Aroclor 1242		ND	17		***************************************						
Aroclor 1248		ND	17								
Aroclor 1254		ND	17								
Aroclor 1260		ND	17								
Surr: Decachlorobij	ohenyl	7.093	1.6	6.667	0	106	54 - 143			5.781UWA	
Surr: Tetrachloro-m	ı-xylene	6.209	1.6	6.667	0	93.1	55 - 137		÷		
LCS	Sample ID:	LCS-81778			Units:	ug/Kg	Ana	lysis Date:	09-May-2014	16:26	
Client ID:			Run ID:	ECD_7_2	233466	SeqNo:	2829903	PrepDate:	09-May-201	DF	:1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016		168.7	17	166.7	0	101	53 - 135				
Aroclor 1260		195.4	17	166.7	0	117	54 - 137				·
Surr: Decachlorobij	phenyl	8.442	1.6	6.667	0	127	54 - 143				
Surr: Tetrachloro-m	n-xylene	7.185	1.6	6.667	0	108	55 - 137				
							۸	lvoja Data:	09-May-201	4 4 4 . 0 5	
MS	Sample ID:	HS14050286-01	MS		Units:	ug/Kg	Ana	iysis Date.	03-111ay-201	4 14:25	
	-	HS14050286-01		ECD_7_2			2829897	PrepDate	09-May-201	4 DF	: 1
MS Client ID: SIDE 8 Analyte	-	HS14050286-01	Run ID:	ECD_7_2				-	_		: 1 Qual
Client ID: SIDE 8	-		Run ID:	SPK Val	233466 SPK Ref	SeqNo:	2829897 Control	PrepDate:	09-May-201	4 DF RPD	
Client ID: SIDE 8	-	Result	Run ID: PQL	SPK Val	233466 SPK Ref Value	SeqNo:	2829897 Control Limit	PrepDate:	09-May-201	4 DF RPD	
Client ID: SIDE 8 Analyte Aroclor 1016		Result	Run ID: PQL	SPK Val 166.2 166.2	233466 SPK Ref Value	SeqNo: %REC 107	2829897 Control Limit 53 - 135	PrepDate:	09-May-201	4 DF RPD	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

12-May-14

Client:

CB&I - Lexana

WorkOrder:

HS14050286

QC BATCH REPORT

Project:

Former GST Steele PCB 148313

Batch ID: 81778	196. 多 · 林怀 	Instrun	nent:	EGD_7		Metho	d: SW808	2		
MSD Sample ID:	HS14050286-01	MSD		Units: u	ıg/Kg	Ana	lysis Date:	09-May-20	14 14:40	
Client ID: SIDE 8		Run ID:	ECD_7_	233466	SeqNo	: 2829898	PrepDate:	09-May-20	14 DF	:1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	173.9	17	166.2	0	105	53 - 135	178.7	2.69	30	
Aroclor 1260	175.2	17	166.2	0	105	54 - 137	176.3	0.585	30	
Surr: Decachlorobiphenyl	7.633	1.6	6.647	0	115	54 - 143	7.727	1.22	30	
Surr: Tetrachloro-m-xylene	6.509	1.6	6.647	0	97.9	55 - 137	6.532	0.352	30	
The following samples were anayzo	ed in this batch: HS	14050286-0	01	HS14050286-0)2	HS14050286	5-03	HS1405028	6-04	

CB&I - Lexana Client:

Former GST Steele PCB 148313 Project:

WorkOrder: HS14050286 12-May-14

QUALIFIERS, ACRONYMS, UNITS

Date:

Qualifier	Description
*	Value exceeds Regulatory Limit
а	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
Н	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
0	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
υ	Analyzed but not detected above the MDL
Acronym	Description
DCS	Detectability Check Study
DLID	Method Dunlicate

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution

Unit Reported Description μg/Kg Micrograms per Kilogram

12-May-14

CERTIFICATIONS, ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	AR - 2014	27-Mar-2015
California	06248CA 2013-2014	31-Jul-2014
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015
Illinois	003403	09-May-2015
Kansas	E-10352 8/15/2013-2014	31-Jul-2014
Louisiana	03087 2013/2014	30-Jun-2014
North Carolina	624 - 2014	31-Dec-2014
Oklahoma	2013-024	31-Aug-2014
Texas	TX104704231-14-13	30-Apr-2015

Date:

12-May-14

Client:

CB&I - Lexana

Project:

Former GST Steele PCB 148313

Work Order:

HS14050286

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS14050286-01	SIDE 8	Login	08-May-14 01:10	DRC	23A
HS14050286-02	SIDE 9	Login	08-May-14 01:10	DRC	23A
HS14050286-03	воттом 3	Login	08-May-14 01:10	DRC	23A
HS14050286-04	ВОТТОМ 13	Login	08-May-14 01:10	DRC	23A

12-May-14

Sample	Receipt	Checklist
--------	---------	-----------

ent Name: CBI-Lexa	na		Date/	Γime Received:	08-May-201	4 09:15
ork Order: HS14050	286		Recei	ved by:	DRC	
Checklist completed by:	Dana.Capps eSignature	8-May-2014 Date	Reviewed by:	Bethany Mc eSignature	Daniel	9-May-2014 Date
Matrices: <u>Soil</u>			Carrier name:	ALS Courie	r	
Shipping container/cooler Custody seals intact on sl	in good condition? hipping container/cooler?		Yes V	No No	Not Present Not Present	
Custody seals intact on sa	ample bottles?		Yes	No 🔲	Not Present	$\overline{\mathbf{v}}$
Chain of custody present	?		Yes 🔽	No 🔲		
Chain of custody signed v	vhen relinquished and recei	ved?	Yes 🔽	No 🔲		
Chain of custody agrees v	with sample labels?		Yes 🗸	No 🗌		
Samples in proper contain	ner/bottle?		Yes 🔽	No 🔲		
ample containers intact?	•		Yes 🗸	No 🗌		
ufficient sample volume	for indicated test?		Yes 🔽	No 🔲		
Il samples received with	in holding time?		Yes 🔽	No		
ontainer/Temp Blank ter	mperature in compliance?		Yes 🔽	No 📉		
emperature(s)/Thermom	neter(s):		0.3/0.3 C/U			IR3
cooler(s)/Kit(s):			6040			
ate/Time sample(s) sen	t to storage:		05/08/2014			
Vater - VOA vials have z	ero headspace?		Yes	No N	lo VOA vials sub	omitted 🗸
Vater - pH acceptable up	on receipt?		Yes	No 🔲	N/A 🔽	
H adjusted?			Yes	No	N/A 🔽	
H adjusted by:						
ogin Notes:						
Client Contacted:		Date Contacted:		Person Cont	acted:	
Contacted By: 0		Regarding:				
Comments:						
Dames Mark Actions						
Corrective Action:						



Cincinnati, OH +1 513 733 5336

Everett, WA +1 425 356 2600

Fort Collins, CO +1 970 490 1511 Holland, MI +1 616 399 6070



Page _1__of

COC ID:

HS14050286

CB&I - Lexana

180

Former GST Steele PCB 148313

Eunito	nmentai				2.500 2.500 2.500		AL	S Project	Manager:					ШШ					ı		
C	ustomer Information				Pr	oject li	nformati	on										開棚	l	-	
Purchase Order	840738		P	roject N	ame	Former	GST Ste	ele		A	PCE	-8082							:		
Work Order			Pro	ect Nun	nber					В								Ì	: :		
Company Name	CB&I - Lexana		Bill	To Comp	pany.	C B&I (3overnme	nt Solutions,	Inc	С											
Send Report To	Mark Finney			Invoice	Attn	A/P				D E											
Address	11206 Thompson Ave	nue		Add	ress	8116 V	Vilson Roa	d		E						, , , , , , , , , , , , , , , , , , , 				_	
City/State/Zip	Lenexa, KS 66219		G	ty/State	/Zip	Kansas	City, MO	64125		G				, 							
Phone	(913) 317-3591		500000	Ph	ione.					Ĥ											
Fax					Fax													1	-		
e-Mail Address	mark.finney@cbi.com		e-N	Mail Add	ress		ices@CBI	.com		J										-	
No.	Sample Description		Da 7		Time		Matrix	Pres.	# Böttles	A	В	C	D	E	F	G	H		್ರಿ	1012	Hold
SIDE	P		5/7	114	1145	- -	Soil		1	X					ļ			: <u> </u>		↓	
2 310E9 3 Borros	7		f		1201										ļ					$\bot\!\!\!\bot$	
	<i>1</i> 3				1213				1											\bot	
4 BOTTON	1 13				12/3		1		1	}										Ш	
5				****				<u> </u>												1	
6 7		· · · · · · · · · · · · · · · · · · ·																			
8			-														L	السا			
9																					
10																				Ш	
Sampler(s) Please P	rult			Shipme	nt Method			iired Turnaro		75W		⋈ 04	her NK Day	48	HF3 24 Ho	ur A	esults I	Due Da	te:		
Relinquished by:	besity 10	3/9/14	Time:	25	Received I					Notes:				, , , , , , , , , , , , , , , , , , , 							
Relinquished by:	E	5.8.14	Time:	5	Received	oy (Labor	atory):			Coc	iler ID	Cool	r Temp	· <u>oc</u>		e: (Chec /ei il Std		ox Belo			CheckList
Logged by (Laboratory)		ate:	Time:		Checked I		etory):		in the second						Lav	rei II Std rei IV SV	I QC/Ra	w Data P	 	RRP	Level IV
Preservative Key:	1-HCI 2-HNO ₃ 3-	H₂SO₄ 4-Na	OH 5	-Na ₂ S ₂ O	₃ 6-Na	HSO4	7-Othe	r 8-4°C	9-5035	網機器	03934		2. 等等在			er/EDI					

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

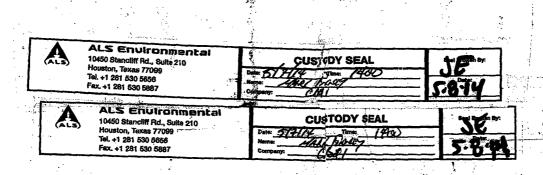
Copyright 2011 by ALS Environmental.

8013 7714 2912 ·

THU - 08 MAY 10:30A PRIORITY OVERNIGHT

AB SGRA

77099 TX-US IAH





June 04, 2014

Mark Finney CB&I - Lexana 11206 Thompson Avenue Lenexa, KS 66219 10450 Stancliff Rd. Suite 210 Houston, TX 77099 T: +1 281 530 5656 F: +1 281 530 5887 www.alsglobal.com

Work Order: HS14050974

Laboratory Results for: Former GST Steele PCB 148313

Dear Mark,

ALS Environmental received 4 sample(s) on May 22, 2014 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: Dayna.Fisher Bethany McDaniel

Bethany M. Daniel

Project Manager

04-Jun-14

_	Client: Project: Work Order:	CB&I - Lexana Former GST Steele PCB 148313 HS14050974	*			SAMPLE SUMN	IARY
	Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
	HS14050974-01	GW-2	Groundwater		21-May-2014 09:45	22-May-2014 09:00	
	HS14050974-02	GW-2F	Groundwater		21-May-2014 10:00	22-May-2014 09:00	
	HS14050974-03	GW-1	Groundwater		21-May-2014 10:25	22-May-2014 09:00	
	HS14050974-04	GW-1F	Groundwater		21-May-2014 10:35	22-May-2014 09:00	

Date:

04-Jun-14

Client: CB&I - Lexana CASE NARRATIVE

Project: Former GST Steele PCB 148313

Work Order: HS14050974

Batch 82341, PCBs by Method SW8082, Insufficient sample to perform MS/MSD. LCS/LCSD provided as batch quality control.

04-Jun-14

Client:

CB&I - Lexana

ANALYTICAL REPORT

Project:

Former GST Steele PCB 148313

WorkOrder:HS14050974

Sample ID:

GW-2

Lab ID:HS14050974-01

Collection Date:

21-May-2014 09:45

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED	
PCBS BY SW8082A Method:SW8082		Method:SW8082	ning a	Prep:SW35100	C/3665A / 27-Ma	^{May-} Analyst: JLJ	
Aroclor 1016	ND		0.500	ug/L	1	28-May-2014 14:05	
Aroclor 1221	ND		0.500	ug/L	1	28-May-2014 14:05	
Aroclor 1232	ND		0.500	ug/L	1	28-May-2014 14:05	
Aroclor 1242	ND		0.500	ug/L	1	28-May-2014 14:05	
Aroclor 1248	ND		0.500	ug/L	1	28-May-2014 14:05	
Aroclor 1254	ND	WWW. Addison. W. Waller W.	0.500	ug/L	1	28-May-2014 14:05	
Aroclor 1260	ND		0.500	ug/L	1	28-May-2014 14:05	
Surr: Decachlorobiphenyl	96.4		54-140	%REC	1	28-May-2014 14:05	
Surr: Tetrachloro-m-xylene	95.3		53-137	%REC	1	28-May-2014 14:05	

Date:

04-Jun-14

Client:

CB&I - Lexana

Project:

Former GST Steele PCB 148313

Sample ID:

GW-2F

Collection Date:

21-May-2014 10:00

ANALYTICAL REPORT

WorkOrder:HS14050974 Lab ID:HS14050974-02

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		Method:SW8082		Prep:SW35100	/3665A / 27-Ma	^{iy-} Analyst: JLJ
Aroclor 1016	ND		0.500	ug/L	1	28-May-2014 14:20
Aroclor 1221	ND		0.500	ug/L	1	28-May-2014 14:20
Aroclor 1232	ND		0.500	ug/L	1	28-May-2014 14:20
Aroclor 1242	ND	***************************************	0.500	ug/L	1	28-May-2014 14:20
Aroclor 1248	ND		0.500	ug/L	1	28-May-2014 14:20
Aroclor 1254	ND		0.500	ug/L	1	28-May-2014 14:20
Aroclor 1260	ND		0.500	ug/L	1	28-May-2014 14:20
Surr: Decachlorobiphenyl	108		54-140	%REC	1	28-May-2014 14:20
Surr: Tetrachloro-m-xylene	104		53-137	%REC	1	28-May-2014 14:20

04-Jun-14

Client:

CB&I - Lexana

Project:

Former GST Steele PCB 148313

Sample ID:

GW-1

Collection Date:

21-May-2014 10:25

ANALYTICAL REPORT

WorkOrder:HS14050974

Lab ID:HS14050974-03

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		Method:SW8082		Prep:SW35100	0/3665A / 27 -M a	^{ay-} Analyst: JLJ
Aroclor 1016	ND		0.500	ug/L	1	28-May-2014 14:35
Aroclor 1221	ND		0.500	ug/L.	1	28-May-2014 14:35
Aroclor 1232	ND		0.500	ug/L	1	28-May-2014 14:35
Aroclor 1242	ND		0.500	ug/L	1	28-May-2014 14:35
Aroclor 1248	ND		0.500	ug/L	1	28-May-2014 14:35
Aroclor 1254	ND	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0.500	ug/L	1	28-May-2014 14:35
Aroclor 1260	ND		0.500	ug/L	1	28-May-2014 14:35
Surr: Decachlorobiphenyl	106	A PACAE AND	54-140	%REC	1	28-May-2014 14:35
Surr: Tetrachloro-m-xylene	102		53-137	%REC	1	28-May-2014 14:35

Date:

04-Jun-14

Client:

CB&I - Lexana

Project:

Former GST Steele PCB 148313

Sample ID:

GW-1F

Collection Date:

21-May-2014 10:35

ANALYTICAL REPORT

WorkOrder:HS14050974 Lab ID:HS14050974-04

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED	
PCBS BY SW8082A		Method:SW8082		Prep:SW3510C/3665A / 27- 2014		May- Analyst: JLJ	
Aroclor 1016	ND	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	0.500	ug/L	1	28-May-2014 14:50	
Aroclor 1221	ND	oliki da	0.500	ug/L	1	28-May-2014 14:50	
Aroclor 1232	ND		0.500	ug/L	1	28-May-2014 14:50	
Aroclor 1242	ND	WWW. WW. 471.0.	0.500	ug/L	1	28-May-2014 14:50	
Aroclor 1248	ND		0.500	ug/L	1	28-May-2014 14:50	
Aroclor 1254	ND		0.500	ug/L	1	28-May-2014 14:50	
Aroclor 1260	ND		0.500	ug/L	1	28-May-2014 14:50	
Surr: Decachlorobiphenyl	89.1		54-140	%REC	1	28-May-2014 14:50	
Surr: Tetrachloro-m-xylene	85.7		53-137	%REC	1	28-May-2014 14:50	

Date:

04-Jun-14

Client:

CB&I - Lexana

HS14050974

Project:

WorkOrder:

Former GST Steele PCB 148313

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 823	41 Test Nam	e: PCBS BY SW8082A		Matrix: G	iroundwater	
HS14050974-01	GW-2	21 May 2014 09:45	i	27 May 2014 13:50	28 May 2014 14:05	1
HS14050974-02	GW-2F	21 May 2014 10:00)	27 May 2014 13:50	28 May 2014 14:20	1
HS14050974-03	GW-1	21 May 2014 10:25	•	27 May 2014 13:50	28 May 2014 14:35	1
HS14050974-04	GW-1F	21 May 2014 10:35	,	27 May 2014 13:50	28 May 2014 14:50	1

04-Jun-14

Client:

CB&I - Lexana

WorkOrder:

HS14050974

Project:

Former GST Steele PCB 148313

QC BATCH REPORT

Batch ID: 82341		The last training to the last training to the last training to the last training training to the last training	Instrun	nent: l	CD_7	Марина фр.	Metho	d: SW808	2		iga IIV palar Is∵
MBLK	Sample ID:	MBLK-82341			Units:	ug/L	Ana	lysis Date:	28-May-201	4 13:20	
Client ID:			Run ID:	ECD_7_2	34827	SeqNo:	2862526	PrepDate:	27-May-201	4 DF	:1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016		ND	0.500								
Aroclor 1221		ND	0.500								
Aroclor 1232		ND	0.500								
Aroclor 1242		ND	0.500								
Aroclor 1248		ND	0.500								
Aroclor 1254		ND	0.500								
Aroclor 1260		ND	0.500								
Surr: Decachlorobip	ohenyl	0.1669	0.0500	0.2	0	83.5	54 - 140				A
Surr: Tetrachloro-m	ı-xylene	0.1635	0.0500	0.2	0	81.7	53 - 137				
LCS	Sample ID:	LCS-82341			Units:	ug/L	Ana	lysis Date:	28-May-201	4 13:35	
Client ID:			Run ID:	ECD_7_2	34827	SeqNo:	2862527	PrepDate:	27-May-201	4 DF	:1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016		4.444	0.500	5			54 - 138				
		7.777	0.000	_	0	88.9	34 - 136				
		4.305	0.500		0	88.9	57 - 136				
	phenyl			5				<u> </u>			
Aroclor 1260		4.305	0.500	5 0.2	0	86.1	57 - 136				
Aroclor 1260 Surr: Decachlorobij		4.305 0.1863	0.500 0.0500	5 0.2	0	86.1 93.1 90.6	57 - 136 54 - 140 53 - 137	lysis Date:	28-May-201	4 13:50	
Aroclor 1260 Surr: Decachlorobij Surr: Tetrachloro-m	n-xylene	4.305 0.1863 0.1811	0.500 0.0500 0.0500	5 0.2	0 0 0 Units:	86.1 93.1 90.6 ug/L	57 - 136 54 - 140 53 - 137		28-May-201 27-May-201		:1
Aroclor 1260 Surr: Decachlorobij Surr: Tetrachloro-m	n-xylene	4.305 0.1863 0.1811	0.500 0.0500 0.0500 Run ID:	5 0.2 0.2	0 0 0 Units:	86.1 93.1 90.6 ug/L	57 - 136 54 - 140 53 - 137 Ana				:1 Qual
Aroclor 1260 Surr: Decachlorobip Surr: Tetrachloro-rr LCSD Client ID:	n-xylene	4.305 0.1863 0.1811 LCSD-82341	0.500 0.0500 0.0500 Run ID:	5 0.2 0.2 ECD_7_2 SPK Val	0 0 Units: 234827 SPK Ref	86.1 93.1 90.6 ug/L SeqNo	57 - 136 54 - 140 53 - 137 Ana 2862528 Control	PrepDate: RPD Ref	27-May-201 %RPD	I 4 DF RPD	
Aroclor 1260 Surr: Decachlorobig Surr: Tetrachloro-m LCSD Client ID: Analyte Aroclor 1016	n-xylene	4.305 0.1863 0.1811 LCSD-82341 Result	0.500 0.0500 0.0500 Run ID:	5 0.2 0.2 0.2 ECD_7_2 SPK Val	0 0 0 Units: 234827 SPK Ref Value	86.1 93.1 90.6 ug/L SeqNo:	57 - 136 54 - 140 53 - 137 Ana 2862528 Control Limit	PrepDate: RPD Ref Value	27-May-201 %RPD 1.89	RPD Limit	
Aroclor 1260 Surr: Decachlorobip Surr: Tetrachloro-m LCSD Client ID: Analyte	n-xylene Sample ID:	4.305 0.1863 0.1811 LCSD-82341 Result 4.529	0.500 0.0500 0.0500 Run ID: PQL 0.500	5 0.2 0.2 ECD_7_2 SPK Val	0 0 0 Units: 234827 SPK Ref Value	86.1 93.1 90.6 ug/L SeqNo: %REC	57 - 136 54 - 140 53 - 137 Ana 2862528 Control Limit	PrepDate: RPD Ref Value 4.444	27-May-201 %RPD 1.89 3.75	RPD Limit	
Aroclor 1260 Surr: Decachlorobip Surr: Tetrachloro-m LCSD Client ID: Analyte Aroclor 1016 Aroclor 1260	n-xylene Sample ID:	4.305 0.1863 0.1811 LCSD-82341 Result 4.529 4.47	0.500 0.0500 0.0500 Run ID: PQL 0.500	5 0.2 0.2 ECD_7_2 SPK Val	0 0 0 Units: 234827 SPK Ref Value	86.1 93.1 90.6 ug/L SeqNo: %REC 90.6 89.4	57 - 136 54 - 140 53 - 137 Ana 2862528 Control Limit 54 - 138 57 - 136	PrepDate: RPD Ref Value 4.444 4.305	27-May-201 %RPD 1.89 3.75 1.5	RPD Limit 20	

Client: CB&I - Lexana

Former GST Steele PCB 148313 Project:

QUALIFIERS, ACRONYMS, UNITS

04-Jun-14

Date:

WorkOrder:	HS14050974	
Qualifier	Description	
*	Value exceeds Regulatory Limit	
а	Not accredited	
В	Analyte detected in the associated Method Blank above the Reporting Limit	
E	Value above quantitation range	
н -	Analyzed outside of Holding Time	
J	Analyte detected below quantitation limit	
M	Manually integrated, see raw data for justification	
n	Not offered for accreditation	
ND	Not Detected at the Reporting Limit	
0	Sample amount is > 4 times amount spiked	
Р	Dual Column results percent difference > 40%	
R	RPD above laboratory control limit	
S	Spike Recovery outside laboratory control limits	
U	Analyzed but not detected above the MDL	
Acronym	Description_	
DCS	Detectability Check Study	
DUP	Method Duplicate	
LCS	Laboratory Control Sample	
LCSD	Laboratory Control Sample Duplicate	
MDLK	Adults of Display	

DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution

Unit Reported Description μg/L Micrograms per Liter

CERTIFICATIONS, ACCREDITATIONS & LICENSES

Agency	Number	Expire Date	
Arkansas	AR - 2014	27-Mar-2015	
California	06248CA 2013-2014	31-Jul-2014	
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015	
Illinois	003403	09-May-2015	
Kansas	E-10352 8/15/2013-2014	31-Jul-2014	
Kentucky	KY 2014-2015	30-Apr-2015	
Louisiana	03087 2013/2014	30-Jun-2014	
North Carolina	624 - 2014	31-Dec-2014	
North Dakota	R-193 2025	30-Apr-2015	
Oklahoma	2013-024	31-Aug-2014	
Texas	TX104704231-14-13	30-Apr-2015	

04-Jun-14

Client:

CB&I - Lexana

Project:

Former GST Steele PCB 148313

Work Order:

HS14050974

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS14050974-01	GW-2	Login	24-May-14 01:08	DRC	26A
HS14050974-02	GW-2F	Login	24-May-14 01:08	DRC	26A
HS14050974-03	GW-1	Login	24-May-14 01:08	DRC	26A
HS14050974-04	GW-1F	Login	24-May-14 01:08	DRC	26A

Date: Sample Receipt Checklist

04-Jun-14

Client Name: CBI-Lexa Vork Order: HS14050				Fime Received:	<u>22-May-2</u> <u>JDE</u>	014 09:00
Checklist completed by:	Dana.Capps eSignature	24-May-201 Date	Reviewed by:	Bethany Messignature		28-May-2014 Date
Matrices: Wat	er		Carrier name:	<u>FedEx</u>		
Shipping container/cooler Custody seals intact on second custody seals intact on second custody seals intact on second custody present? Chain of custody signed we chain of custody agrees we samples in proper contain sample containers intact? Sufficient sample volume All samples received with container/Temp Blank ter Temperature(s)/Thermoment	nipping container/cooler? ample bottles? vhen relinquished and rece with sample labels? ner/bottle? for indicated test? in holding time? mperature in compliance?	ived?	Yes V	No	Not Prese Not Prese Not Prese	nt 🗌
Cooler(s)/Kit(s): Date/Time sample(s) sent Water - VOA vials have zo Water - pH acceptable up pH adjusted? pH adjusted by:	ero headspace?		3106 05/24/2014 Yes Yes	No No No	No VOA vials s N/A V	submitted 💟
Login Notes:						
Client Contacted:		Date Contacted:		Person Co	ontacted:	
Contacted By: 0 Comments:		Regarding:				
Corrective Action:					-	

ALS Laboratory Group

10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887

Chain of Custody Form

Page ____of

HS14050974

CB&i - Lexane

Former GST Steele PCB 148313

							LS Project	Manager:	12.0										
	Customer Informati	on		· · · · · · · · · · · · · · · · · · ·	Projec	t informa	tion				1 1001001	HINGE IC	ii uzu aa	# ####	eun zau	Z 15411 ISI	ec ecu c		
Purchase Order	840738	3	Project N	ame	For	mes	65t c	Sterle	Ā	PC	Br	ક	FOS	72					
Work Order			Project Nun	nber		73/3			В										
Company Name	CBI-les	nuse	Bill To Comp	any	•	+I			С										
Send Report To	Mark F.	nnces	Invoice	Attn	Al	P			D										
Address	11206 Tho	isn'ey mpson Ave	Add	ress					E										
City/State/Zip	concrea,	45 46219	City/State	/Zip		***************************************			G										
Phone	913-317-		Ph	one				**************************************	н										
Fax			2020 (3.00)	Fax	•	· · · · · · · · · · · · · · · · · · ·		**	1										
e-Mail Address	ma-k-f:nucy Sample Description	Och con	e-Mail Addr	058	ap.	'nvoi	USO C	bis Con	44										
No.	Sample Description	egy Marijas (Friday).	Date	Tir	ne .	Matrix	Pres.	# Bottles	A	В	С	D.	E	F	G	H	@Lar	J	Hold
1 6W-	Z	3	121/14	09	45	GU)	8	1	X										
2 6W-	aF		}	100	50	cw	8	1	X		>	1	cle		1	40	9	d	
3 6W-	. 1			100		Sw	8	1	X										
4 6W-			V	103		CW	8	1	X		A	50	2	E	1/1	12	1	_	
:5												-							
6			·																
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8						75)		1					7		$\neg \neg$			
9					-	\mathcal{H}				1				_					
10									<u> </u>					_					
Sampler(s) Please P	Frugas de	L-82	Shipmen	nt Metho	2		uired Turnaro		er Alberta		Other			Hour	Re	suits C	ue Dat	6 :	i se e di
Relinquished by:	S	Date: 5/1/4 Tin	1200	Receive	d by:				Notes:					<u></u>	<u> </u>			<u></u>	
Relinquished by:		Dafte: 5-22-14 Tim	700	Receive	d by (La)	oratone;			Coo	ier ID	Coole	r Temp				k One Bo	ox Below		
ogged by (Laboratory Preservative Key:		Date: Tin 3-H ₂ SO ₄ 4-NaOl-	ne:	Checks		oratory):	r 8-4°C	9-5035							td QC/F	Raw Dete		TRRP	Checklist Level IV

ote: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.

2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.

3. The Chain of Custody is a legal document. All information must be completed accurately.

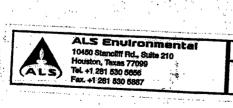
Copyright 2008 by ALS Laboratory Group.

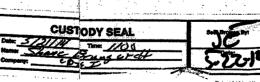
8052 9842 3890

NC SGRA

THU - 22 MAY 10:30A PRIORITY OVERNIGHT

77099





Appendix C
Waste Manifests

JOHNSON COUNTY LANDFILL Date: REPRINTED PO BOX 3249 Ticket# 963329

7/31/13

Ticket# 963329 PO BOX 3249 In: 1:34 PM Operator PSHAFER_JC SHAWNEE KS 66203 Out: 1:34 PM

Origin: KANSAS CITY-JAC PO#: NA Auth#: 13188

Manifest: NA

Cust# 56-0001144 Vehl: FW-0002 Tare: 22400 MILE RAIL Cont: Tare:

8116 WILSON RD

KANSAS CITY MO 64125

Comment:

Gross Wgt Tare Wgt Net Wgt Material Otv Amount SW-CONTAMINATED SOIL 36780 LB 1 22400 LB T 14380 LB 7.19 TN 201.32

Total- 201.32

Driver Signature____ Driver Signature_____ Driver Printed Name_____
Weight Codes: M=Manual, T=Stored Tare, 1/2 = Scale

JOHNSON COUNTY LANDFILL Date: 7/31/13 REPRINTED Ticket# 963396 PO BOX 3249

In: 2:31 PM
KS 66203 Out: 2:31 PM Operator PSHAFER_JC SHAWNEE

Origin: KANSAS CITY-JAC PO#: NA Auth#: 13188

Manifest: NA

Vehl: FW-0003 Cust# 56-0001144 Tare: 32860 MILE RAIL Cont: Tare:

8116 WILSON RD

KANSAS CITY MO 64125

Comment:

Gross Wgt Tare Wgt Net Wgt Qty Material Amount SW-CONTAMINATED SOIL 61800 LB 1 32860 LB T 28940 LB 14.47 TN 405.16

Total- 405.16

Driver Signature Driver Printed Name Weight Codes: M=Manual, T=Stored Tare, 1/2 = Scale

REPRINTED JOHNSON COUNTY LANDFILL Date: 8/01/13 Ticket# 963786 PO BOX 3249 In: 9:00 AM Operator PSHAFER_JC SHAWNEE KS 66203 Out: 9:00 AM

Origin: KANSAS CITY-JAC PO#: NA Auth#: 13188 Manifest: NA

Cust# 56-0001144 Vehl: FW-0003 Tare: 32860

MILE RAIL Cont: Tare: 8116 WILSON RD

KANSAS CITY MO 64125

Comment:

Material Gross Wgt Tare Wgt Net Wgt Qty Amount SW-CONTAMINATED SOIL 83660 LB 1 32860 LB T 50800 LB 25.40 TN 711.20

Total- 711.20

Driver Signature ____ Driver Printed Name____ Weight Codes: M=Manual, T=Stored Tare, 1/2 = Scale

JOHNSON COUNTY LANDFILL REPRINTED Date: 8/01/13 Ticket# 963842 PO BOX 3249 In: 10:12 AM Operator PSHAFER_JC SHAWNEE

KS 66203 Out: 10:12 AM

Origin: KANSAS CITY-JAC PO#: NA Auth#: 13188 Manifest: NA

Cust# 56-0001144 Vehl: MS-0007 Tare: 36420

MILE RAIL Cont: Tare:

8116 WILSON RD KANSAS CITY MO 64125

Comment:

Qty Material Gross Wqt Tare Wgt Net Wgt Amount SW-CONTAMINATED SOIL 65540 LB 1 36420 LB T 29120 LB 14.56 TN 407.68

Total- 407.68

Driver Signature _____ Driver Printed Name____ Weight Codes: M=Manual, T=Stored Tare, 1/2 = Scale

JOHNSON COUNTY LANDFILL REPRINTED 8/01/13 Date: PO BOX 3249 Ticket# 963905 In: 11:18 AM Operator PSHAFER_JC SHAWNEE

KS 66203 Out: 11:18 AM

Origin: KANSAS CITY-JAC PO#: NA Auth#: 13188 Manifest: NA

Cust# . 56-0001144 Vehl: FW-0003 Tare: 32860

MILE RAIL Cont: Tare:

8116 WILSON RD

MO 64125

KANSAS CITY

Comment:

Material Gross Wgt Tare Wgt Net Wgt Qty Amount

SW-CONTAMINATED SOIL 68080 LB 1 32860 LB T 35220 LB 17.61 TN 493.08

Total- 493.08

Driver Printed Name____ Driver Signature Weight Codes: M=Manual, T=Stored Tare, 1/2 = Scale

JOHNSON COUNTY LANDFILL REPRINTED Date: 8/01/13 Ticket# 964004 PO BOX 3249

In: 1:00 PM KS 66203 Out: 1:00 PM Operator PSHAFER_JC SHAWNEE

Origin: KANSAS CITY-JAC PO#: NA Auth#: 13188

Manifest: NA Cust# 56-0001144 Vehl: MS-0007

Tare: 36420 MILE RAIL Cont: Tare:

8116 WILSON RD

KANSAS CITY MO 64125

Comment:

Material Gross Wgt Tare Wgt Net Wgt Qty Amount SW-CONTAMINATED SOIL 62620 LB 1 36420 LB T 26200 LB 13.10 TN 366.80

Total- 366.80

Driver Signature _____ Driver Printed Name____ Weight Codes: M=Manual, T=Stored Tare, 1/2 = Scale



Please print or type. (Form designed for use on elite (12-plich) typewriter.) UNIFORM HAZARDOUS 1. Generator ID Number 2. Page 1 of | 3. Emergency Response Phone WASTE MANIFEST M00000031823 (800)326-1221 Senerator's Sile Address (if different than mailing address)
MILE RAIL, LLC / JOHN M. KUPAR
8116 WILSON RD
RANSAS CITY, MO 64125-1327 Generator's Name and Malling Address
DENOVO GROUP / JOHN KUPAR
1302 W RANDOLPH ST
CHICAGO, IL 60607-1514
(312)733-9370 GEN: 133926 Generator's Phone: 6. Transporter 1 Company Name U.S. EPA ID Number HAZMAT RESPONSE INC. KSD985016047 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address U.S. EPAID Number Designator activity name and site Address
HERITAGE ENVIRONMENTAL SERVICES
4370 W COUNTY ROAD 1275 N
ROACHDALE, IN 46172-9593
Colleys Phone: (765) 435-2704 IND980503890 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 13. Wasie Codes and Packing Group (if any)) Quantity WL/Vol. No. Туре X RQ,UN3432,POLYCHLORINATED BIPHENYLS, SOLID,9,PGIII, (PCB RENEDIATION WASTE - SOIL), (RQ = 1 LB),ERG#171 GENERATOR 1 CM ĸ 14. Special Handling Instructions and Additional Information od 10 300 kg (22600 kg 1.W1_Q710401_T#6136308 earliest date of removal from service 8/5/20/3ERI:HERITAGE [3707191]G 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations, if export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. Generalor's/Offeror's Printed/Typed Name Signatura 7 LOCOP Walk ___ Import to U.S. Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.: 17. Transporter Acknowledgment of Receipt of Materials
Transporter Afrinted/Typed Name Month Day 18. Discrepancy 18a. Discrepancy Indication Space Туре Quantity ___ Residue Partial Relection Full Relection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPAID Number Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day 19. Hazardous Wasie Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) H132 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name 08/06/13 EPA Form 8700-22 (Rev. 3-05) Prévious editions are obsoléte. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)



Ple	ase pr	nt or type. (Form designed for use on elite							Approved, OMB No. 2	050-0039
1	W	FORM HAZARDOUS 1. Generator ID Number ASTE MANIFEST MOOOOOG	31823	1		26-1221	4. Manifest	0005	45556WAS	
11	5. Ge	nerator's Name and Mailing Address ENOVO GROUP / JOHN KU	IPAR		Generalor's Sile Add	ess (If different I	han mailing addres	s) KIIPA	ìR	
	1	302 W RANDOLPH ST			8116 WILS	SON RD			-41	
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$\ $	Facili	y's Phone: (765) 435-270								
Ш	9a. HM	9b. U.S. DOT Description (including Proper Sh and Packing Group (if any))	ripping Name, Hazard Class, ID Number,		10. Co	ntainers	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	;
11	<u> </u>	1.			NO.	Туре	Quality	1111101.		
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11	l	marked and labeled/placarded, and are in all resp Exporter, I certify that the contents of this consign	pects in proper condition for transport acc nment conform to the terms of the attache	ording to applic d EPA Acknow	able international and edgment of Consent.	national govern	mental regulations.	. If export shi	ipment and I am the Prima	iry
	l	certify that the waste minimization statement ide rator's/Offeror's Printed/Typed Name	entifled in 40 CFR 262,27(a) (if I am a larg	e quantity gen	erator) or (b) (if I am a nature	small quantity g	enerator) is irue.		Month Day	V
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Form Approved, OMB No. 2050-0039 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 4. Manifest Tracking Number 000551529WAS UNIFORM HAZARDOUS 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone WASTE MANIFEST M00000031823 (800)326-1221 Generator's Name and Mailing Address
DENOVO GROUP / JOHN KUPAR
1302 W RANDOLPH ST
CHICAGO, IL 60607-1514 Generator's Site Address (if different than melling address) ocentrators site Address (in dimensi train making address)
MILE RAIL, LLC / JOHN M. KUPAR
8116 WILSON RD
KANSAS CITY, MO 64125-1327
GEN: 133926 (312)733-9370 Generator's Phone: 6. Transporter 1 Company Name 11 S EPAID Number U.S. BULK TRANSPORT, INC PAD987347515 7. Transporter 2 Company Name U.S. EPAID Number 8. Designated Facility Name and Site Address U.S. EPA ID Number DESIGNATION AND ADDRESS OF A COURSES

4370 W COUNTY ROAD 1275 N

ROACHDALE, IN 46172-9593

acility's Phone: (765)435-2704 IND980503890 Facility's Phone: 10. Containers 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) HM Quantity WiJVol. No. Туре RQ,UN3432,POLYCHLORINATED BIPHENYLS, SOLID,9,PGIII,(PCB REMEDIATION WASTE - SOIL), (RQ = 1 LB),ERG#171 20,000 X K GENERATOR 1 DT 3 1 19 900kg (43280lb) 14. Special Handling Instructions and Additional Information 1.W1_Q710401_T#6117998 EARLIEST DATE OF REMOVAL FROM SERVICE 07 / 31 / 13 909-01-13 ERI:HERITAGE [3692646]G 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I cartify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) Generator's/Offeror's Printed/Typed Name Day Shanc Brun sandt for Mik Rai 07131113 16. International Shipments Export from U.S. Port of entry/exit: import to U.S. Date leaving U.S.: Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials Transporter Printed/Typed Name
Transporter 2 Printed/Typed Name FR ANSPORT Signature 18. Discrepancy 18a, Discrepancy Indication Space Quantity Туре Full Rejection Residue Partial Rejection Manifest Reference Number: 18b, Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: DESIGNATED 18c. Signature of Alternate Facility (or Generator) Month Day 19. Hazardous Wasie Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal and recycling systems) H132 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 182 Printed/Typed Name Day 108101 1/3 EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

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Union Pacific Railroad Company Right of Entry Agreement

CONTRACTOR'S ENDORSEMENT

Folder No. 2842-48

A. As a condition to entering upon Lie Agreement, Licensee's contractor (Fill in):	censor's right-of-way to perform work pursuant to this
(hereinafter "Contractor") agrees to comply with to the work to be performed and the insurance required.	h all the terms and provisions of this Agreement relating quirements set forth in Exhibit C.
nonrefundable payment of \$500 upon execution	any work, the Contractor will pay the Licensor as and return of this Contractor's Endorsement, and will y its insurance carrier providing the insurance coverage contains the following type endorsement:
UNION PACIFIC RAILROAD COMPA with respect to all liabilities arising out of Insured Licensee.	
All insurance correspondence shall be directed t Railroad Company, 1400 Douglas Street STOP 16	to: Justin K. Mahr - Folder No. 2842-48, Union Pacific 690, Omaha, Nebraska 68179-1690.
	(Please print Contractor's Name above)
	XTitle:

Folder No. 02842-48

RIGHT OF ENTRY AGREEMENT

THIS AGREEMENT is made and entered into as of December 11, 2013, by and between UNION PACIFIC RAILROAD COMPANY, a Delaware corporation (hereinafter the "Railroad"), and MILE RAIL, LLC, a Michigan limited liability corporation, to be addressed at 281 Woodcreek Ct., Commerce, MI 48390 (hereinafter the "Licensee").

IT IS MUTUALLY AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

Article 1. **DEFINITION OF LICENSEE.**

For purposes of this Agreement, all references in this Agreement to the Licensee shall include the Licensee's contractors, subcontractors, officers, agents and employees, and others acting under its or their authority.

Article 2. RIGHT GRANTED; PURPOSE.

The Railroad hereby grants to the Licensee the right, during the term hereinafter stated and upon and subject to each and all of the terms, provisions and conditions herein contained, to enter upon and have ingress to and egress from the portion of Railroad's property in the vicinity of Mile Post 277.3, K.C Metro (Neff Yard), at or near Kansas City, Missouri, for the purpose of taking up to 12 soil borings & 48 subsurface/sediment samples, plus 3 ground water samples will be taken. The right herein granted to Licensee is limited to those portions of the Railroad's property specifically described herein in the location shown on the print marked Exhibit A, attached hereto and hereby made a part hereof, or designated by the Railroad Representative named in Article 4.

For the purposes of Exhibit A, Licensee acknowledges that if it or its contractor provides to Railroad digital imagery, Licensee authorizes Railroad to use the Digital Imagery in preparing the print attached as an exhibit hereto. Licensee represents and warrants that through a license or otherwise, it has the right to use the Digital Imagery and to permit Railroad to use the Digital Imagery in said manner.

Article 3. TERMS AND CONDITIONS CONTAINED IN EXHIBITS B AND C.

The terms and conditions contained in Exhibits B and C, hereto attached, are hereby made a part of this Agreement.

Article 4. <u>ALL EXPENSES TO BE BORNE BY LICENSEE;</u> RAILROAD REPRESENTATIVE.

The Licensee shall bear any and all costs and expenses associated with any work performed by the Licensee, or any costs or expenses incurred by the Railroad relating to this Agreement. All work performed by Licensee on Railroad's property shall be performed in a manner satisfactory to the representative local Manager of Track Maintenance of the Railroad or his authorized representative (hereinafter the Railroad Representative):

KYLE J. VEDDER
MGR TRACK MNTCE
600 Broadway, Ste 500
Kansas City, MO 64105
Work Phone: 816-399-1374
Cell Phone: 913-940-2875

Article 5. TERM; TERMINATION.

- A. The grant of right herein made to Licensee shall commence on the date of this Agreement, and continue until December 31, 2014 unless sooner terminated as herein provided, or at such time as Licensee has completed its work on Railroad's property, whichever is earlier. Licensee agrees to notify the Railroad Representative in writing when it has completed its work on Railroad property.
- B. This Agreement may be terminated by either party on ten (10) days written notice to the other party.

Article 6. CERTIFICATE OF INSURANCE.

A. Before commencing any work, the Licensee will provide the Railroad with a Certificate issued by its insurance carrier providing the insurance coverage required pursuant to Exhibit C of this Agreement in a policy which contains the following type of endorsement:

"Union Pacific Railroad Company is named as additional insured with respect to all liabilities arising out of Insured's, as Licensee, performance of any work on the property of the Railroad."

- B. Licensee warrants that this Agreement has been thoroughly reviewed by its insurance agent(s)/broker(s) and that said agent(s)/broker(s) has been instructed to procure insurance coverage and an endorsement as required herein.
- C. <u>Union Pacific should be listed as certificate holder</u> and all insurance correspondence shall be directed to: Union Pacific Railroad Company, Director (Attn.: Justin K. Mahr Folder No.2842-48), 1400 Douglas Street STOP 1690, Omaha, Nebraska 68179-1690.

Article 7. PROTECTION OF FIBER OPTIC CABLE SYSTEMS.

Fiber optic cable systems may be buried on Licensor's property. Protection of the fiber optic cable systems is of extreme importance since any break could disrupt service to users resulting in business interruption and loss of revenue and profits. Prior to beginning any work, the Licensee shall telephone the Railroad at 1-800-336-9193 (a 24-hour number) to determine if fiber optic cable is buried anywhere on the property set forth herein. If it is, the Licensee shall also comply with and be subject to the provisions contained in Section 6 of Exhibit B.

Article 8. ENFORCEABILITY; CHOICE OF LAW; CHOICE OF FORUM.

This Agreement shall be governed, construed, and enforced in accordance with the laws of the state of Nebraska. Litigation arising out of or connected with this Agreement may be instituted and maintained in the courts of the state of Nebraska and Missouri only, and the parties consent to jurisdiction over their person and over the subject matter of any such litigation, in those courts, and consent to service of process issued by such courts.

Article 9. LICENSE FEE.

Licensee shall pay, and Railroad shall accept, upon the execution and return of this instrument, the nonrefundable sum of Eleven Thousand Five Hundred Dollars (\$11,500.00) to cover Railroad's cost to prepare and administer this Agreement.

Flagging charges are not included in the sum recited in the preceding paragraph, and will be billed separately, if incurred.

Article 10. CONFIDENTIALITY.

- A. The Parties acknowledge that any data, samples, test results, laboratory analyses, or other information obtained or derived from any environmental investigation or other related work performed on Railroad's Property, and all documents, reports or other information that are developed which pertain to environmental conditions on Railroad's Property (hereinafter "the Environmental Report") are confidential in nature. The Parties agree that all such information, including the Environmental Report, shall be distributed only to those officers, directors and employees of Railroad and Licensee who are authorized by the Railroad to receive such information.
- B. Government agencies that are authorized by law to obtain the Environmental Report, including any data, samples, laboratory analyses, and/or other information relied upon to develop the Environmental Report, are authorized by the Railroad to receive the Environmental Report when requested pursuant to legally applicable federal, state or local mandate. Licensee agrees that the Railroad shall be notified of any request by a federal, state or local government agency for copies of the Environmental Report and/or related information.
- C. The Licensee agrees to take all reasonable measures to assure continuous confidentiality and protection of the Environmental Report, including keeping copies to a minimum and maintaining a log that identifies each and every individual that has had access to the Environmental Report or has otherwise taken possession of the Environmental Report.
- D. Adequate instructions shall be issued by the Licensee to all affected officers, directors, employees and consultants of the Licensee as necessary to satisfy the confidentiality provisions of this Agreement.

- E. The Licensee's contractors, subcontractors, consultants, lenders, counsel and advisors, including legal counsel, that are hired to assist, conduct, prepare and/or review the Environmental Report, shall not be provided a copy of the Environmental Report and/or related information until they agree in writing to adhere to all the provisions of this Agreement.
- F. Licensee agrees that the Environmental Report, and all associated data, samples, analyses, and other information, are and shall remain the personal property of the Railroad. Upon completion of its work, Licensee agrees to turn the Environmental Report and all associated data and other information, including all copies thereof, over to the Railroad.
- G. In addition to any other remedy at law, the Parties agree that either Party shall have the right to enjoin the other Party, including the other Party's contractors, subcontractors, consultants, lenders, counsel, and/or advisors, in any court of competent jurisdiction for breach of the confidentiality provisions of this Agreement.
- H. All the terms contained in this Agreement shall survive completion of any work authorized by this Agreement, as well as any related discussions and/or negotiations. The Licensee and Railroad agree to be bound by the confidentiality provisions of this Agreement in perpetuity.

Article 11. SPECIAL PROVISION - RAILROAD FLAGMAN; WHEN REQUIRED; FLAGGING CHARGES.

- A. No work of any kind shall be performed, and no person, equipment, machinery, tool(s), material(s), vehicle(s), or thing(s) shall be located, operated, placed, or stored within 25 feet of any of Railroad's track(s) at any time, for any reason, unless and until a Railroad flagman is provided to watch for trains, pursuant to the terms of the attached Exhibit 'B'. All expenses connected with the furnishing of said flagman shall be at the sole cost and expense of the Licensee, who shall promptly pay to Railroad all charges connected therewith, within 30 days after presentation of a bill therefore.
- B. One and one-half times the current hourly rate is paid for overtime, Saturdays and Sundays; two and one-half times current hourly rate for holidays.
- C. Wage rates are subject to change, at any time, by law or by agreement between the Railroad and its employees, and may be retroactive as a result of negotiations or a ruling of an authorized Governmental Agency. Additional charges on labor are also subject to change. If the wage rate or additional charges are changed, the Licensee shall pay on the basis of the new rates and charges.
- D. Reimbursement to the Railroad will be required covering the full eight hour day during which any flagman is furnished, unless he can be assigned to other Railroad work during a portion of such day, in which event reimbursement will not be required for the portion of the day during which the flagman is engaged in other work. Reimbursement will also be required for any day not actually worked by said flagman following his assignment to work on the project for which the Railroad is required to pay the flagman and which could not reasonably be avoided by the Railroad Company by assignment of such flagman to other work, even though the Licensee may not be working during such time.
- E. Arrangements for flagging are to be made at least Thirty (30) days in advance of commencing work, with the Railroad Manager of Track Maintenance

Article 12. <u>LICENSEE SHALL FURNISH INFORMATION TO THE RAILROAD.</u>

Prior to entering Railroad's property, the Licensee shall also furnish to Railroad a copy of all correspondence (which shall remain a continuing obligation that includes all past and any future correspondence) with any regulatory agencies, or others, that may be involved in this project; a copy of a work plan and a location plan. Prior to the conclusion of this Agreement, the Licensee shall also furnish to the Railroad a copy of all boring logs, and all analytical results obtained hereunder; and advise the Railroad of any and all clean-up activities undertaken with respect to this project and the results and conclusion of same. All required information shall be directed to Union Pacific Railroad Company, c/o Mr. Joel Strafelda, 1400 Douglas Street, STOP 1030, Omaha, NE 68179-1030.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed as of the date first herein written.

UNION PACIFIC RAILROAD COMPANY Federal Taxpayer I.D. #94-6001323	MILE RAIL, LLC
By:	By:
Manager - Contracts	Title:

(Pursuant to ordinance, resolution, or other evidence of proper authority to execute this instrument, a copy of which shall be attached to the Railroad's original counterpart of this document.)

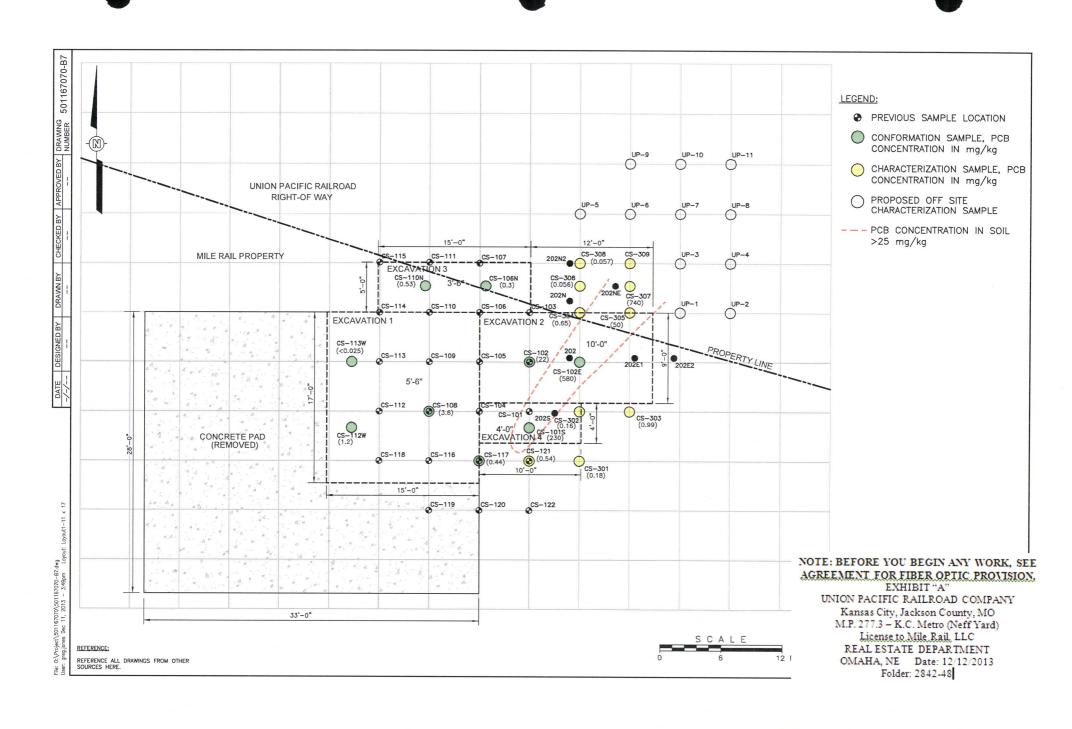


EXHIBIT B

Section 1 - NOTICE OF COMMENCEMENT OF WORK - FLAGGING.

The Licensee agrees to notify the Railroad Representative at least Ten (10) days in advance of Licensee commencing its work and at least 24 hours in advance of proposed performance of any work by the Licensee in which any person or equipment will be within 25 feet of any track, or will be near enough to any track that any equipment extension (such as, but not limited to, a crane boom) will reach to within 25 feet of any track. Upon receipt of such notice, the Railroad Representative will determine and inform the Licensee whether a flagman need be present and whether the Licensee need implement any special protective or safety measures. If any flagmen or other special protective or safety measures are performed by the Railroad, such services will be provided at Licensee's expense with the understanding that if the Railroad provides any flagging or other services, the Licensee shall not be relieved of any of its responsibilities or liabilities set forth herein.

Section 2 - LIMITATION AND SUBORDINATION OF RIGHTS GRANTED.

- a. The foregoing grant of right is subject and subordinate to the prior and continuing right and obligation of the Railroad to use and maintain its entire property including the right and power of the Railroad to construct, maintain, repair, renew, use, operate, change, modify or relocate railroad tracks, roadways, signal, communication, fiber optics, or other wirelines, pipelines and other facilities upon, along or across any or all parts of its property, all or any of which may be freely done at any time or times by the Railroad without liability to the Licensee or to any other party for compensation or damages.
- b. The foregoing grant is also subject to all outstanding superior rights (including those in favor of licensees and lessees of the Railroad's property, and others) and the right of the Railroad to renew and extend the same, and is made without covenant of title or for quiet enjoyment.

Section 3 - NO INTERFERENCE WITH RAILROAD'S OPERATION.

No work performed by Licensee shall cause any interference with the constant, continuous and uninterrupted use of the tracks, property and facilities of the Railroad, its lessees, licensees or others, unless specifically permitted under this Agreement, or specifically authorized in advance by the Railroad Representative. Nothing shall be done or suffered to be done by the Licensee at any time that would in any manner impair the safety thereof. When not in use, Licensee's machinery and materials shall be kept at least 50 feet from the centerline of Railroad's nearest track, and there shall be no crossings of Railroad's tracks except at existing open public crossings.

Section 4 - PERMITS.

Prior to beginning any work, the Licensee, at its sole expense, shall obtain all necessary permits to perform any work contemplated by this Agreement.

Section 5 - MECHANIC'S LIENS.

The Licensee shall pay in full all persons who perform labor or provide materials for the work to be performed by Licensee. The Licensee shall not create, permit or suffer any mechanic's or materialmen's liens of any kind or nature to be enforced against any property of the Railroad for any such work performed. The Licensee shall indemnify and hold harmless the Railroad from and against any and all liens, claims, demands, costs or expenses of whatsoever nature in any way connected with or growing out of such work done, labor performed, or materials furnished.

Section 6 - FIBER OPTIC CABLE SYSTEMS.

In addition to other indemnity provisions in this Agreement, the Licensee shall indemnify and hold the Railroad harmless from and against all costs, liability and expense whatsoever (including, without limitation, attorneys' fees, court costs and expenses) arising out of any act or omission of the Licensee, its contractor, agents and/or employees, that causes or contributes to (1) any damage to or destruction of any telecommunications system on Railroad's property, and (2) any injury to or death of any person employed by or on behalf of any telecommunications company, and/or its contractor, agents and/or employees, on Railroad's property. Licensee shall not have or seek recourse against Railroad for any claim or cause of action for alleged loss of profits or revenue or loss of service or other consequential damage to a telecommunication company using Railroad's property or a customer or user of services of the fiber optic cable on Railroad's property.

Section 7 - COMPLIANCE WITH LAWS.

In the prosecution of the work covered by this Agreement, the Licensee shall comply with all applicable federal, state and local laws, regulations and enactments affecting the work. The Licensee shall use only such methods as are consistent with safety, both as concerns the Licensee, the Licensee's agents and employees, the officers, agents, employees and property of the Railroad and the public in general. The Licensee (without limiting the generality of the foregoing) shall comply with all applicable state and federal occupational safety and health acts and regulations. All Federal Railroad Administration regulations shall be followed when work is performed on the Railroad's property. If any failure by the Licensee to comply with any such laws, regulations, and enactments, shall result in any fine, penalty, cost or charge being assessed, imposed or charged against the Railroad, the Licensee shall reimburse and indemnify the Railroad for any such fine, penalty, cost or charge, including without limitation attorneys' fees, court costs and expenses. The Licensee further agrees in the event of any such action, upon notice thereof being provided by the Railroad, to defend such action free of cost, charge, or expense to the Railroad.

Section 8 - SAFETY INSTRUCTIONS.

Safety of personnel, property, rail operations and the public is of paramount importance in the prosecution of the work pursuant to this Agreement. As reinforcement and in furtherance of overall safety measures to be observed by the Licensee (and not by way of limitation), the following special safety rules shall be followed:

a. The Licensee shall keep the job site free from safety and health hazards and ensure that its employees are competent and adequately trained in all safety and health aspects of the job. The Licensee shall have proper first aid supplies available on the job site so that prompt first aid services can be provided to any person that may be injured on the job site. The Licensee shall promptly notify the Railroad of any U.S. Occupational Safety and Health Administration reportable injuries occurring to any person that may arise during the work performed on the job site. The Licensee shall have a non-delegable

duty to control its employees, while they are on the job site or any other property of the Railroad to be certain they do not use, be under the influence of, or have in their possession any alcoholic beverage or illegally obtained drug, narcotic or other substance that may inhibit the safe performance of work by an employee.

- b. The employees of the Licensee shall be suitably dressed to perform their duties safely and in a manner that will not interfere with their vision, hearing or free use of their hands or feet. Only waist length shirts with sleeves and trousers that cover the entire leg are to be worn. If flare-legged trousers are worn, the trouser bottoms must be tied to prevent catching. The employees should wear sturdy and protective footwear. Employees shall not wear boots (other than work boots), sandals, canvas-type shoes or other shoes that have thin soles or heels that are higher than normal. In addition, the Licensee shall require its employees to wear personal protective equipment as specified by Railroad rules, regulations or Railroad officials overlooking the work at the job site. In particular, the protective equipment to be warn shall be:
 - (1) Protective head gear that meets American National Standard-Z89.1-latest revision. It is suggested that all hardhats be affixed with Licensee's or subcontractor's company logo or name.
 - (2) Eye protection that meets American National Standard for occupational and educational eye and face protection, Z87.1-latest revision. Additional eye protection must be provided to meet specific job situations such as welding, grinding, burning, etc.; and
 - (3) Hearing protection which affords enough attenuation to give protection from noise levels that will be occurring on the job site.
- c. All heavy equipment provided or leased by the Licensee shall be equipped with audible back-up warning devices. If in the opinion of the Railroad Representative any of Licensee's or any of its subcontractors' equipment is unsafe for use on the Railroad's right-of-way, the Licensee, at the request of the Railroad Representative, shall remove such equipment from the Railroad's right-of-way.

Section 9 - INDEMNITY.

- a. As used in this Section, "Railroad" includes other railroad companies using the Railroad's property at or near the location of the Licensee's installation and their officers, agents, and employees; "Loss" includes loss, damage, claims, demands, actions, causes of action, penalties, costs, and expenses of whatsoever nature, including court costs and attorneys' fees, which may result from: (i) injury to or death of persons whomsoever (including the Railroad's officers, agents, and employees, the Licensee's officers, agents, and employees, as well as any other person); and (ii) damage to or loss or destruction of property whatsoever (including Licensee's property, damage to the roadbed, tracks, equipment, or other property of the Railroad, or property in its care or custody).
- b. As a major inducement and in consideration of the license and permission herein granted, the Licensee agrees to indemnify and hold harmless the Railroad from any Loss which is due to or arises from any cause and is associated in whole or in part with the work performed under this Agreement, a breach of the Agreement or the failure to observe the health and safety provisions herein, or any activity or omission arising out of performance or nonperformance of this Agreement; regardless of whether caused solely or contributed to in part by the negligence or fault of the Railroad.

c. Any liability of either party hereunder to one of its employees under any Workers' Compensation Act or the Federal Employers' Liability Act shall not be questioned or in any way challenged by the other party, nor shall any jury or court findings, resulting from any employee's suit against either party pursuant to any such Act(s), be relied upon or used by either party in any attempt to assert common law liability against the other.

Section 10 - RESTORATION OF PROPERTY.

In the event the Railroad authorizes the Licensee to take down any fence of the Railroad or in any manner move or disturb any of the other property of the Railroad in connection with the work to be performed by Licensee, then in that event the Licensee shall, as soon as possible and at Licensee's sole expense, restore such fence and other property to the same condition as the same were in before such fence was taken down or such other property was moved or disturbed, and the Licensee shall indemnify and hold harmless the Railroad, its officers, agents and employees, against and from any and all liability, loss, damages, claims, demands, costs and expenses of whatsoever nature, arising from the taking down of any fence or the moving or disturbance of any other property of the Railroad.

Section 11 - WAIVER OF BREACH.

The waiver by the Railroad of the breach of any condition, covenant or agreement herein contained to be kept, observed and performed by the Licensee shall in no way impair the right of the Railroad to avail itself of any remedy for any subsequent breach thereof.

Section 12 - ASSIGNMENT - SUBCONTRACTING.

The Licensee shall not assign, sublet or subcontract this Agreement, or any interest therein, without the written consent of the Railroad and any attempt to so assign, sublet or subcontract without the written consent of the Railroad shall be void. If the Railroad gives the Licensee permission to subcontract all or any portion of the work herein described, the Licensee is and shall remain responsible for all work of subcontractors and all work of subcontractors shall be governed by the terms of this Agreement.

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<u>EXHIBIT C</u>

Union Pacific Railroad Contract Insurance Requirements

Right of Entry Agreement

Licensee shall, at its sole cost and expense, procure and maintain during the life of this Agreement (except as otherwise provided in this Agreement) the following insurance coverage:

A. <u>Commercial General Liability</u> insurance. Commercial general liability (CGL) with a limit of not less than \$5,000,000 each occurrence and an aggregate limit of not less than \$10,000,000. CGL insurance must be written on ISO occurrence form CG 00 01 12 04 (or a substitute form providing equivalent coverage).

The policy must also contain the following endorsement, which must be stated on the certificate of insurance:

Contractual Liability Railroads ISO form CG 24 17 10 01 (or a substitute form providing equivalent coverage) showing "Union Pacific Railroad Company Property" as the Designated Job Site.

B. <u>Business Automobile Coverage</u> insurance. Business auto coverage written on ISO form CA 00 01 (or a substitute form providing equivalent liability coverage) with a combined single limit of not less \$2,000,000 for each accident.

The policy must contain the following endorsements, which must be stated on the certificate of insurance: Coverage For Certain Operations In Connection With Railroads ISO form CA 20 70 10 01 (or a substitute form providing equivalent coverage) showing "Union Pacific Property" as the Designated Job Site.

- Motor Carrier Act Endorsement Hazardous materials clean up (MCS-90) if required by law.
- C. <u>Workers Compensation and Employers Liability</u> insurance. Coverage must include but not be limited to:

Licensee's statutory liability under the workers' compensation laws of the state(s) affected by this Agreement

Employers' Liability (Part B) with limits of at least \$500,000 each accident, \$500,000 disease policy limit \$500,000 each employee.

If Licensee is self-insured, evidence of state approval and excess workers compensation coverage must be provided. Coverage must include liability arising out of the U. S. Longshoremen's and Harbor Workers' Act, the Jones Act, and the Outer Continental Shelf Land Act, if applicable.

D. Railroad Protective Liability insurance. Licensee must maintain Railroad Protective Liability insurance written on ISO occurrence form CG 00 35 12 04 (or a substitute form providing equivalent coverage) on behalf of Railroad as named insured, with a limit of not less than \$2,000,000 per occurrence and an aggregate of \$6,000,000. A binder stating the policy is in place must be submitted to Railroad before the work may be commenced and until the original policy is forwarded to Railroad.

- E. <u>Umbrella or Excess</u> insurance. If Licensee utilizes umbrella or excess policies, these policies must "follow form" and afford no less coverage than the primary policy.
- **F.** Pollution Liability insurance. Pollution Liability coverage must be included when the scope of the work as defined in the Agreement includes installation, temporary storage, or disposal of any "hazardous" material that is injurious in or upon land, the atmosphere, or any watercourses; or may cause bodily injury at any time.

Pollution liability coverage must be written on ISO form Pollution Liability Coverage Form Designated Sites CG 00 39 12 04 (or a substitute form providing equivalent liability coverage), with limits of at least \$5,000,000 per occurrence and an aggregate limit of \$10,000,000.

If the scope of work as defined in this Agreement includes the disposal of any hazardous or non-hazardous materials from the job site, Licensee must furnish to Railroad evidence of pollution legal liability insurance maintained by the disposal site operator for losses arising from the insured facility accepting the materials, with coverage in minimum amounts of \$1,000,000 per loss, and an annual aggregate of \$2,000,000.

Other Requirements

- G. All policy(ies) required above (except worker's compensation and employers liability) must include Railroad as "Additional Insured" using ISO Additional Insured Endorsements CG 20 26, and CA 20 48 (or substitute forms providing equivalent coverage). The coverage provided to Railroad as additional insured shall, to the extent provided under ISO Additional Insured Endorsement CG 20 26, and CA 20 48 provide coverage for Railroad's negligence whether sole or partial, active or passive, and shall not be limited by Licensee's liability under the indemnity provisions of this Agreement.
- **H.** Punitive damages exclusion, if any, must be deleted (and the deletion indicated on the certificate of insurance), unless (a) insurance coverage may not lawfully be obtained for any punitive damages that may arise under this agreement, or (b) all punitive damages are prohibited by all states in which this agreement will be performed..
- I. Licensee waives all rights against Railroad and its agents, officers, directors and employees for recovery of damages to the extent these damages are covered by the workers compensation and employers liability or commercial umbrella or excess liability insurance obtained by Licensee required by this agreement.
- J. Prior to commencing the work, Licensee shall furnish Railroad with a certificate(s) of insurance, executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements in this Agreement.
- **K.** All insurance policies must be written by a reputable insurance company acceptable to Railroad or with a current Best's Insurance Guide Rating of A- and Class VII or better, and authorized to do business in the state(s) in which the work is to be performed.
- L. The fact that insurance is obtained by Licensee or by Railroad on behalf of Licensee will not be deemed to release or diminish the liability of Licensee, including, without limitation, liability under the indemnity provisions of this Agreement. Damages recoverable by Railroad from Licensee or any third party will not be limited by the amount of the required insurance coverage.